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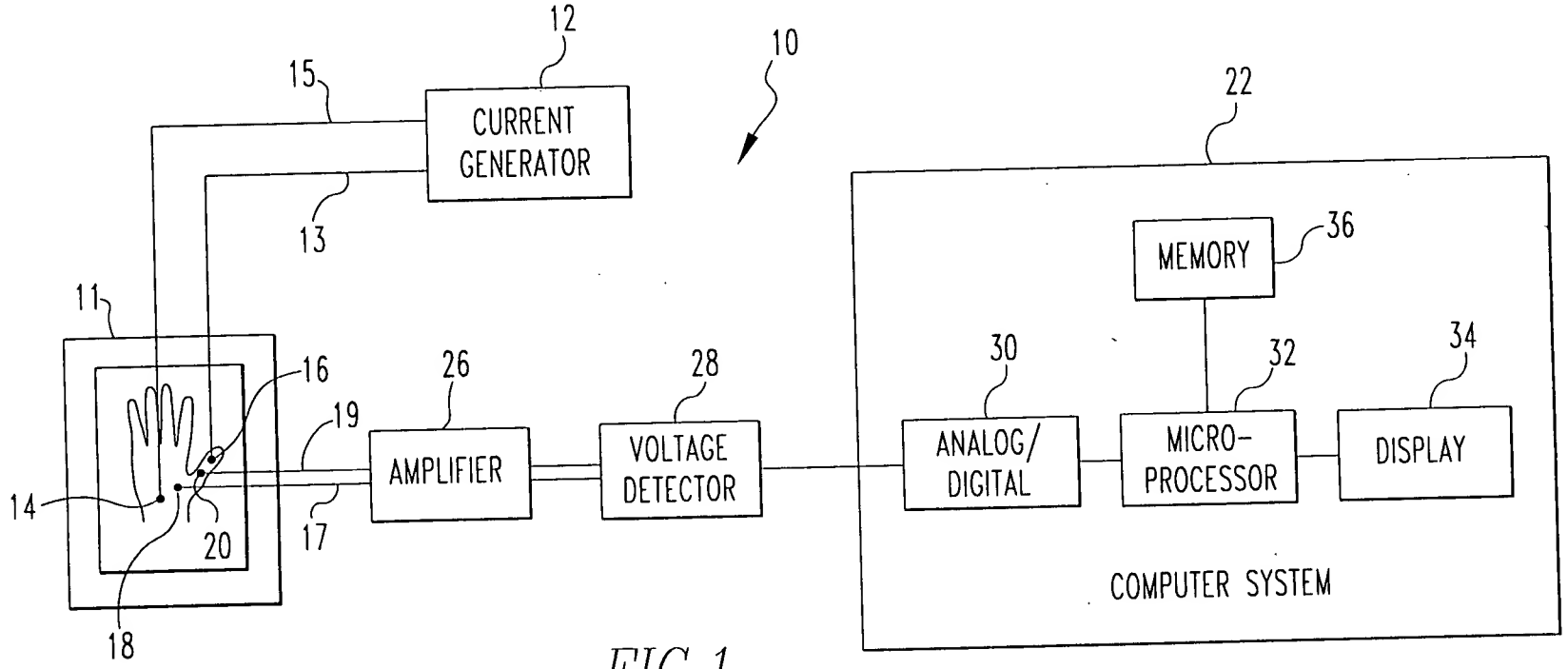


FIG.1

09396112.091699

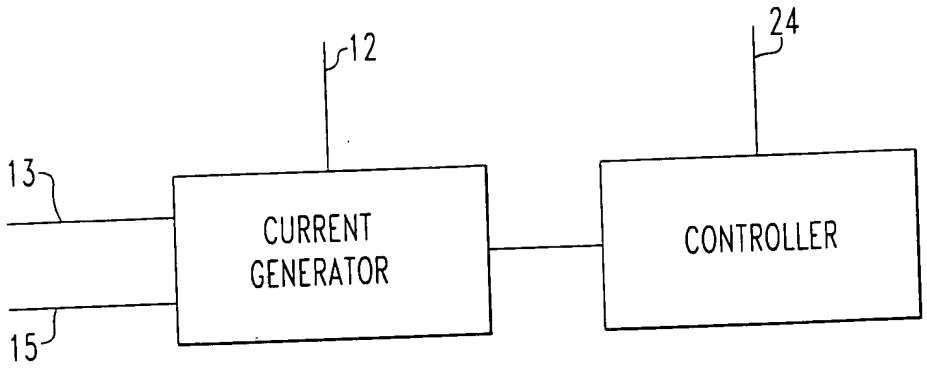

12
24
13
CURRENT GENERATOR
CONTROLLER
15

FIG.2

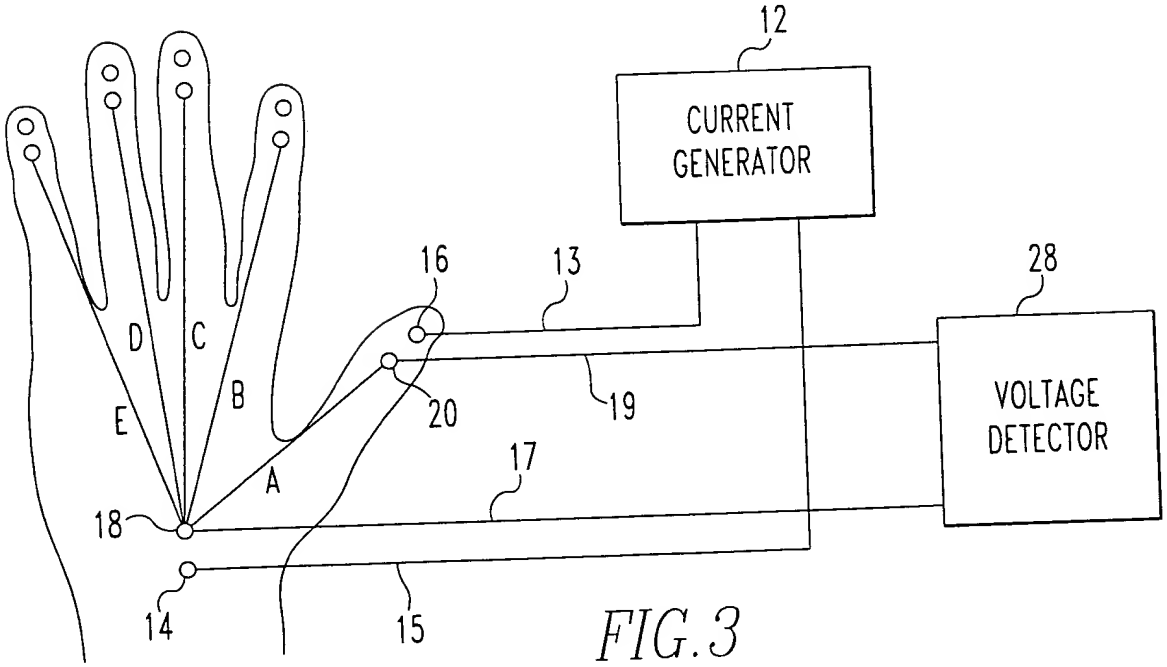

12
CURRENT GENERATOR
16
13
28
D
C
B
E
20
19
VOLTAGE DETECTOR
A
17
18
14
15

FIG.3

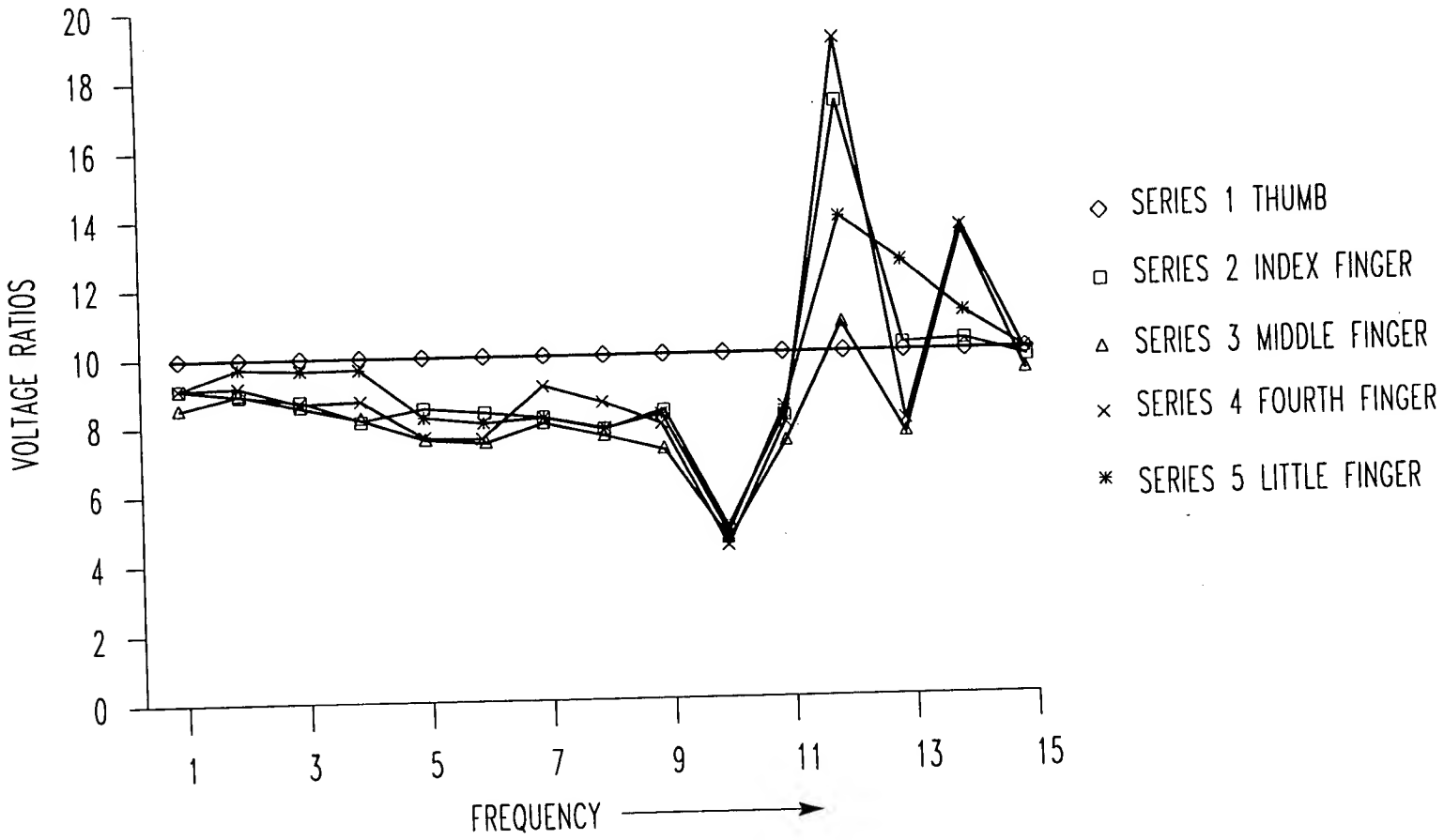


FIG.4

09306112 .091509

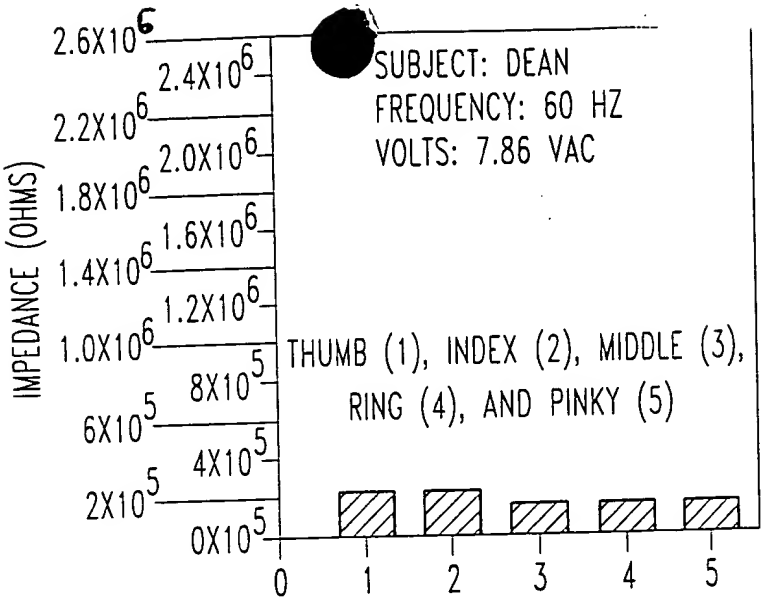


FIG.5A

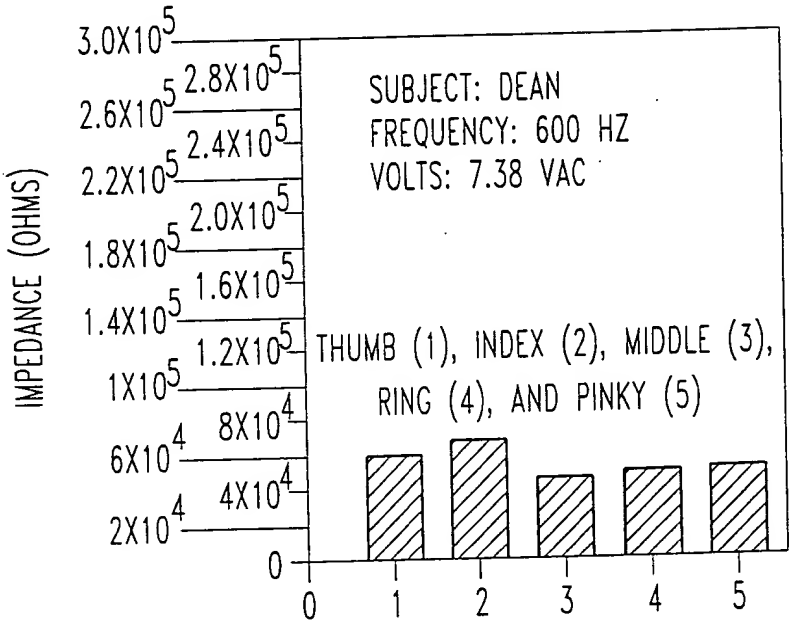


FIG.5B

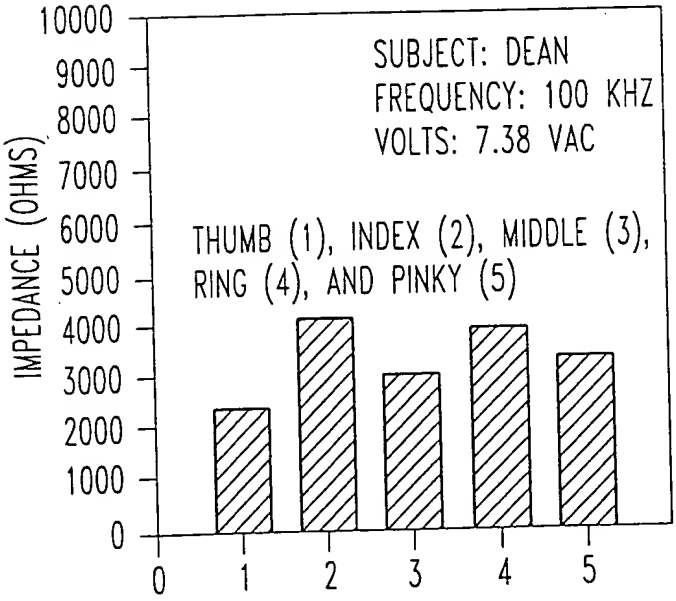


FIG.5C

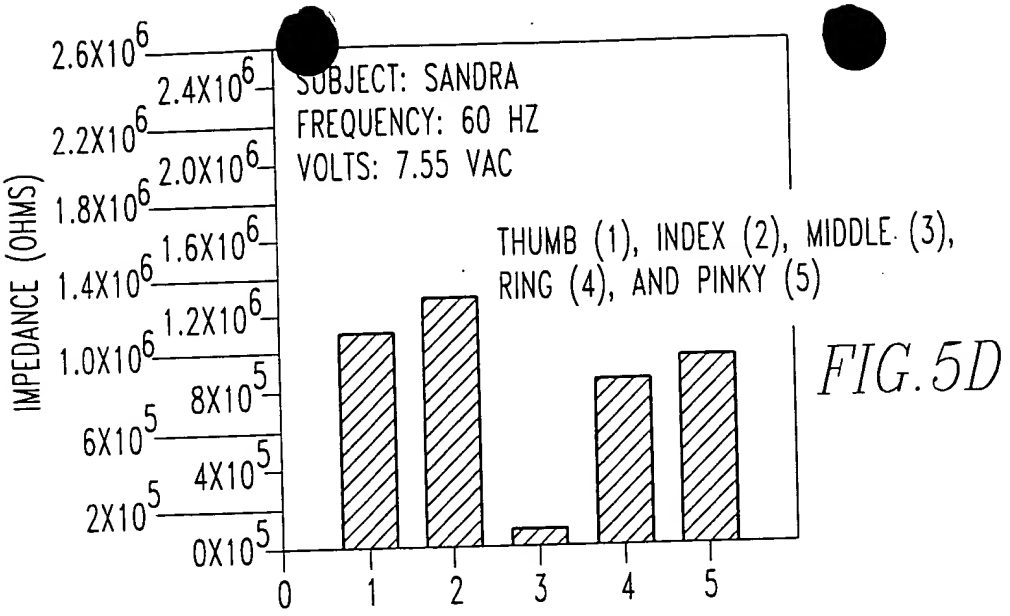


FIG.5D

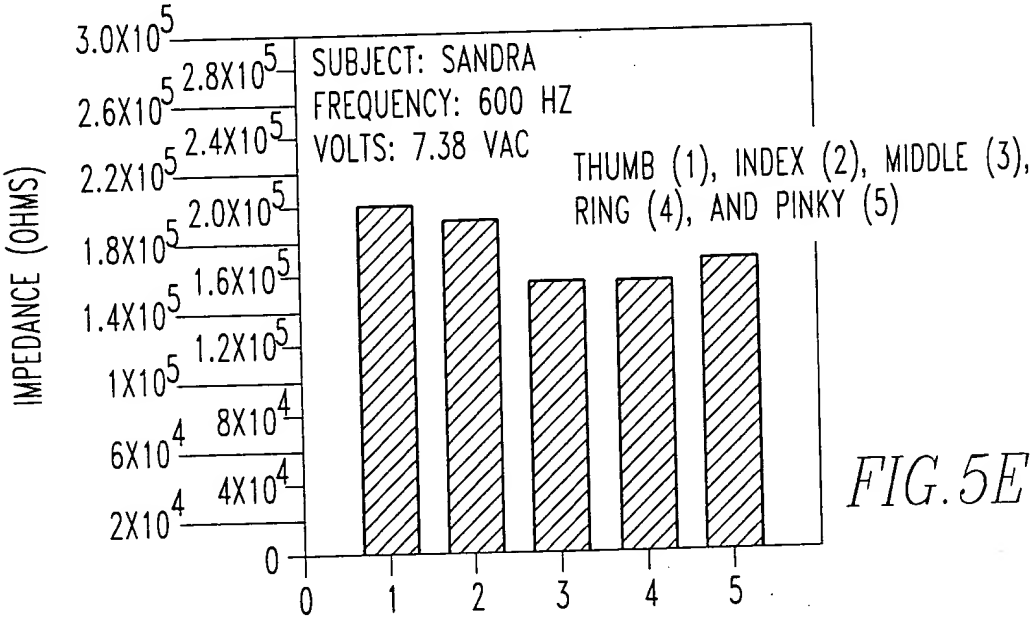


FIG.5E

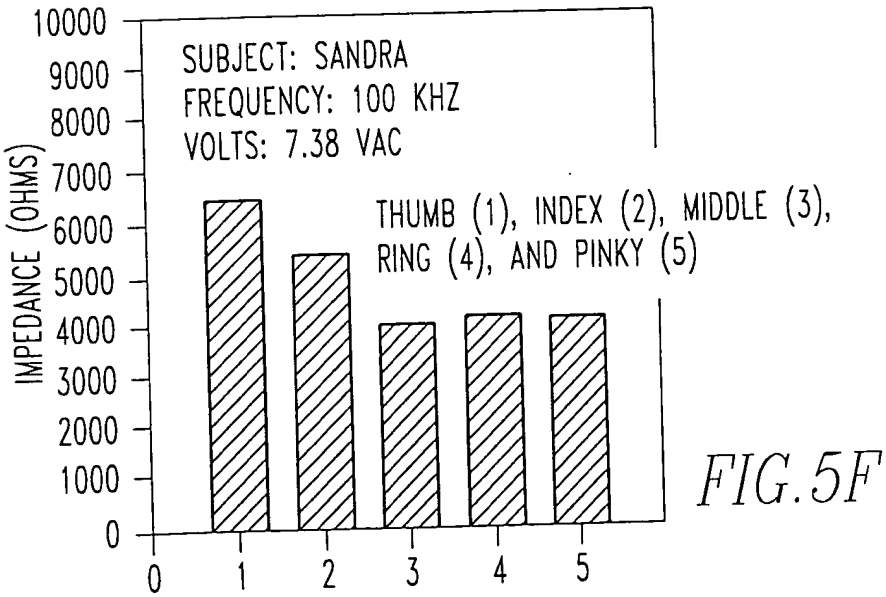


FIG.5F

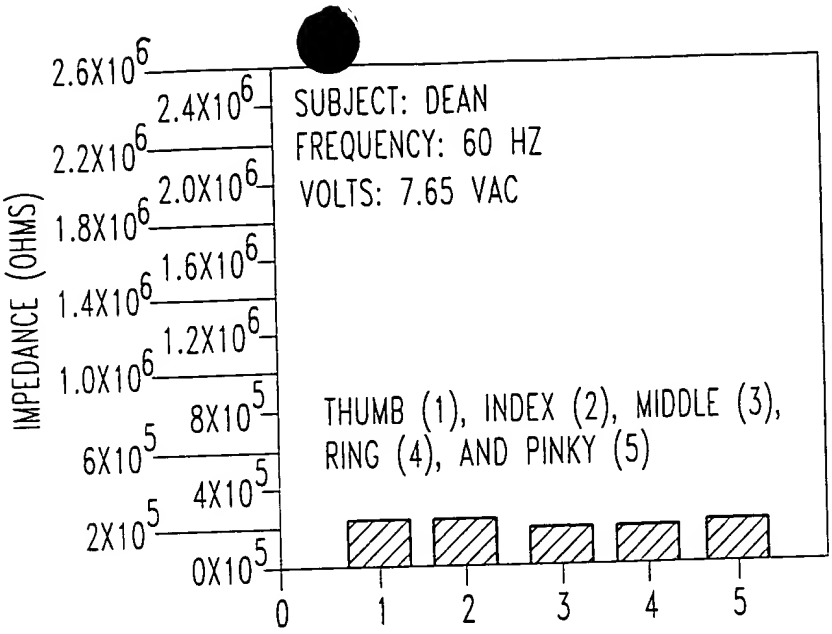


FIG.6A

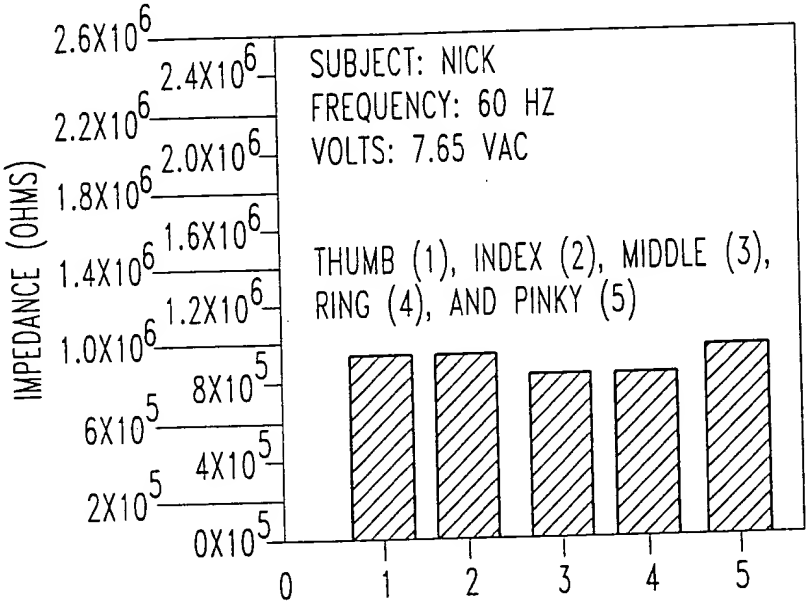


FIG.6B

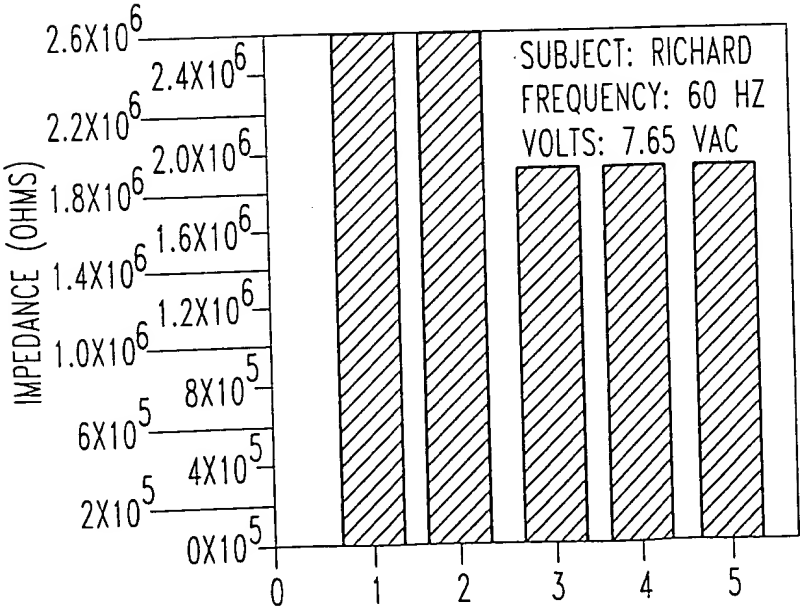
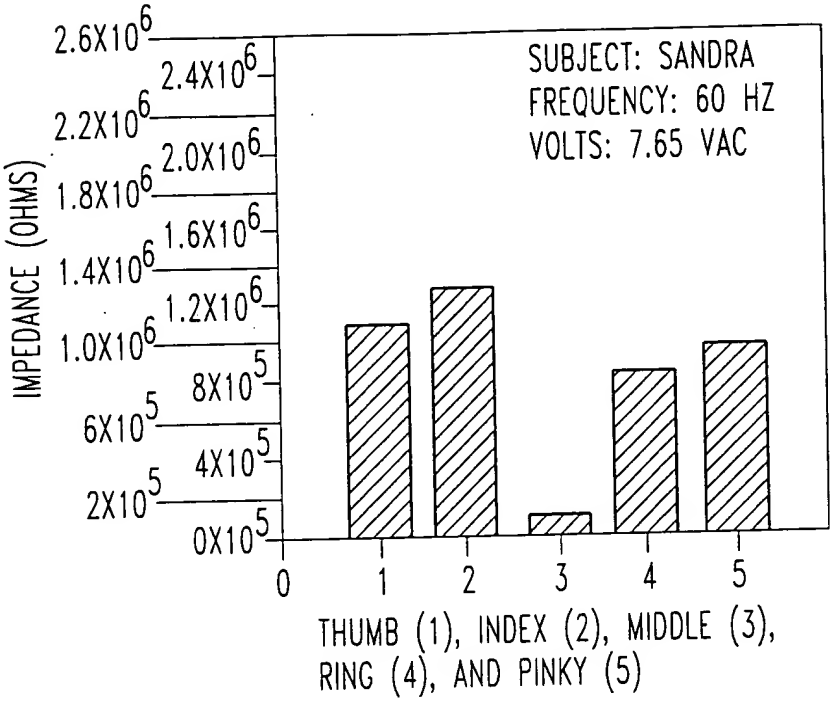


FIG.6C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FREQUENCY: 60 HZ
VOLTS: 7.65 VAC
IMPEDANCE (OHMS)
2.6X10^6
2.4X10^6
2.2X10^6
2.0X10^6
1.8X10^6
1.6X10^6
1.4X10^6
1.2X10^6
1.0X10^6
8X10^5
6X10^5
4X10^5
2X10^5
0X10^5
0
1
2
3
4
5
THUMB (1), INDEX (2), MIDDLE (3),
RING (4), AND PINKY (5)

FIG. 6D

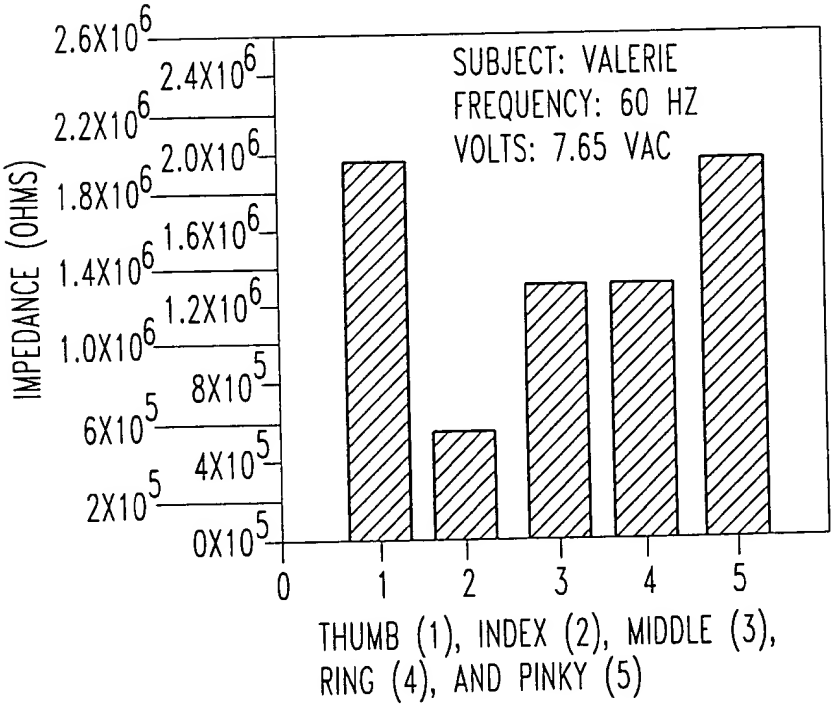

SUBJECT: VALERIE
FREQUENCY: 60 HZ
VOLTS: 7.65 VAC
IMPEDANCE (OHMS)
2.6X10^6
2.4X10^6
2.2X10^6
2.0X10^6
1.8X10^6
1.6X10^6
1.4X10^6
1.2X10^6
1.0X10^6
8X10^5
6X10^5
4X10^5
2X10^5
0X10^5
0
1
2
3
4
5
THUMB (1), INDEX (2), MIDDLE (3),
RING (4), AND PINKY (5)

FIG. 6E

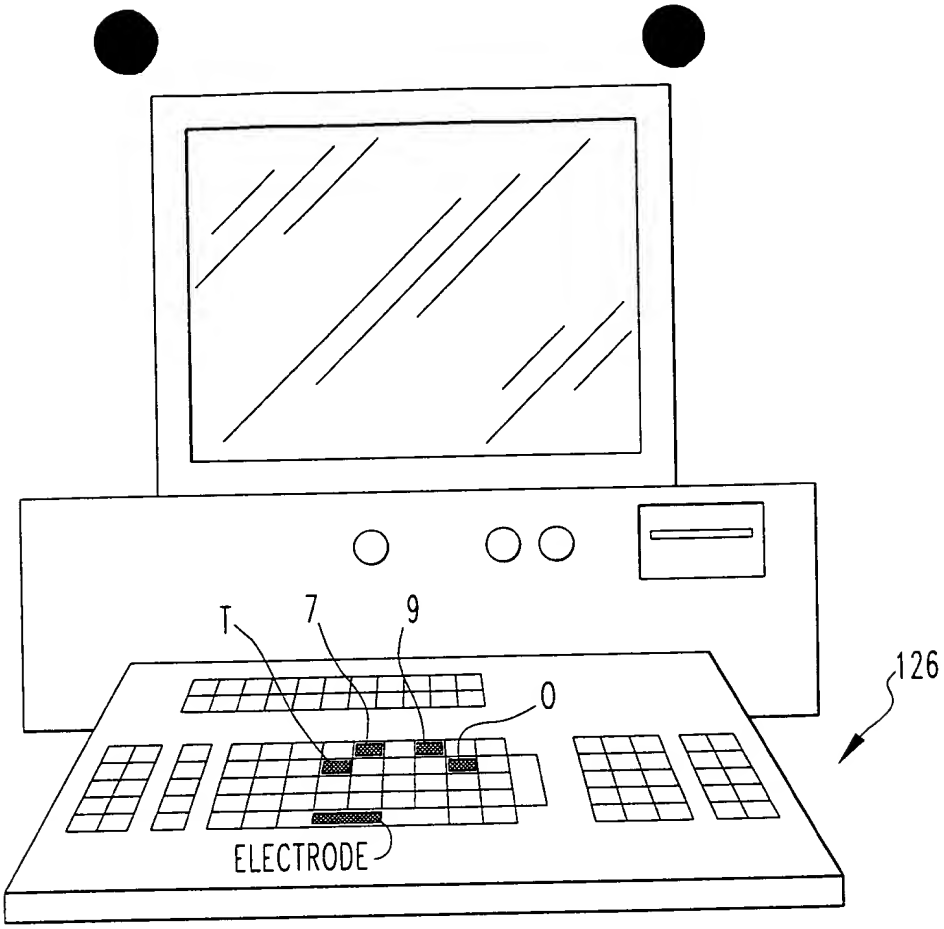


FIG. 7

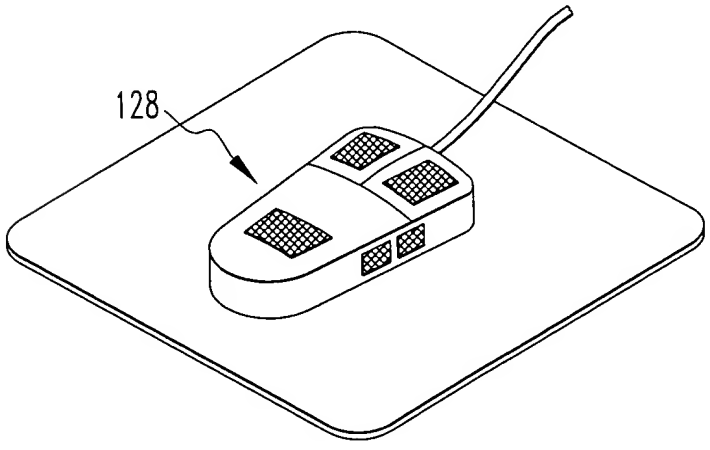


FIG. 8

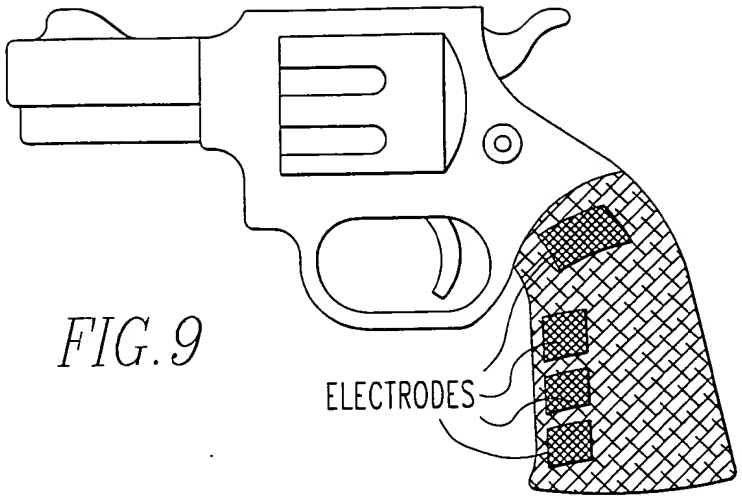


FIG.9

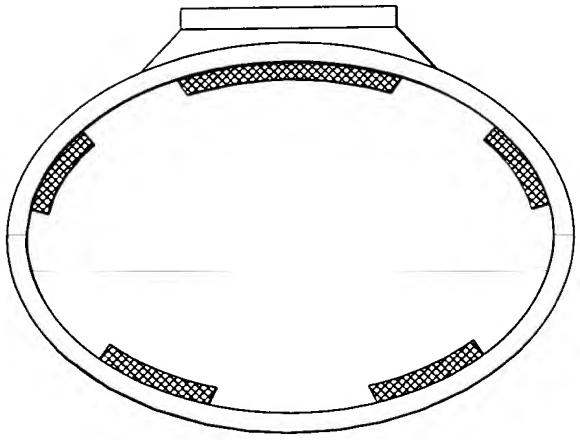


FIG10

D9954450 "D9954450"

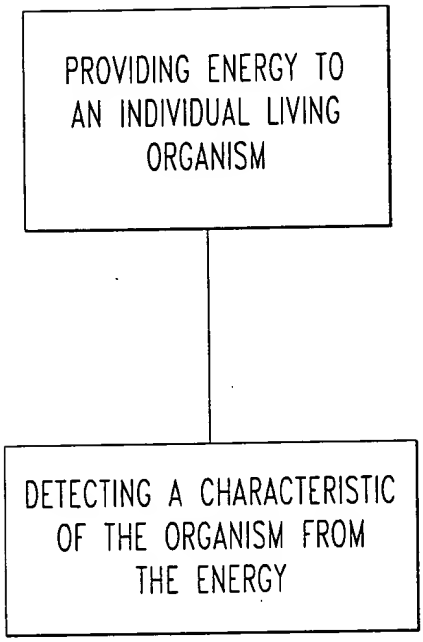

PROVIDING ENERGY TO AN INDIVIDUAL LIVING ORGANISM
DETECTING A CHARACTERISTIC OF THE ORGANISM FROM THE ENERGY

FIG.11

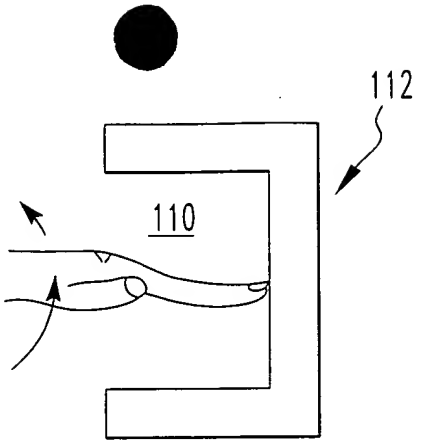


FIG.12a

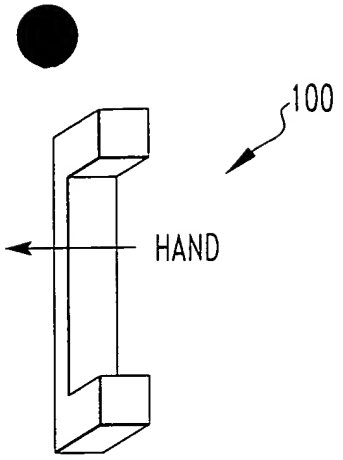


FIG.12b

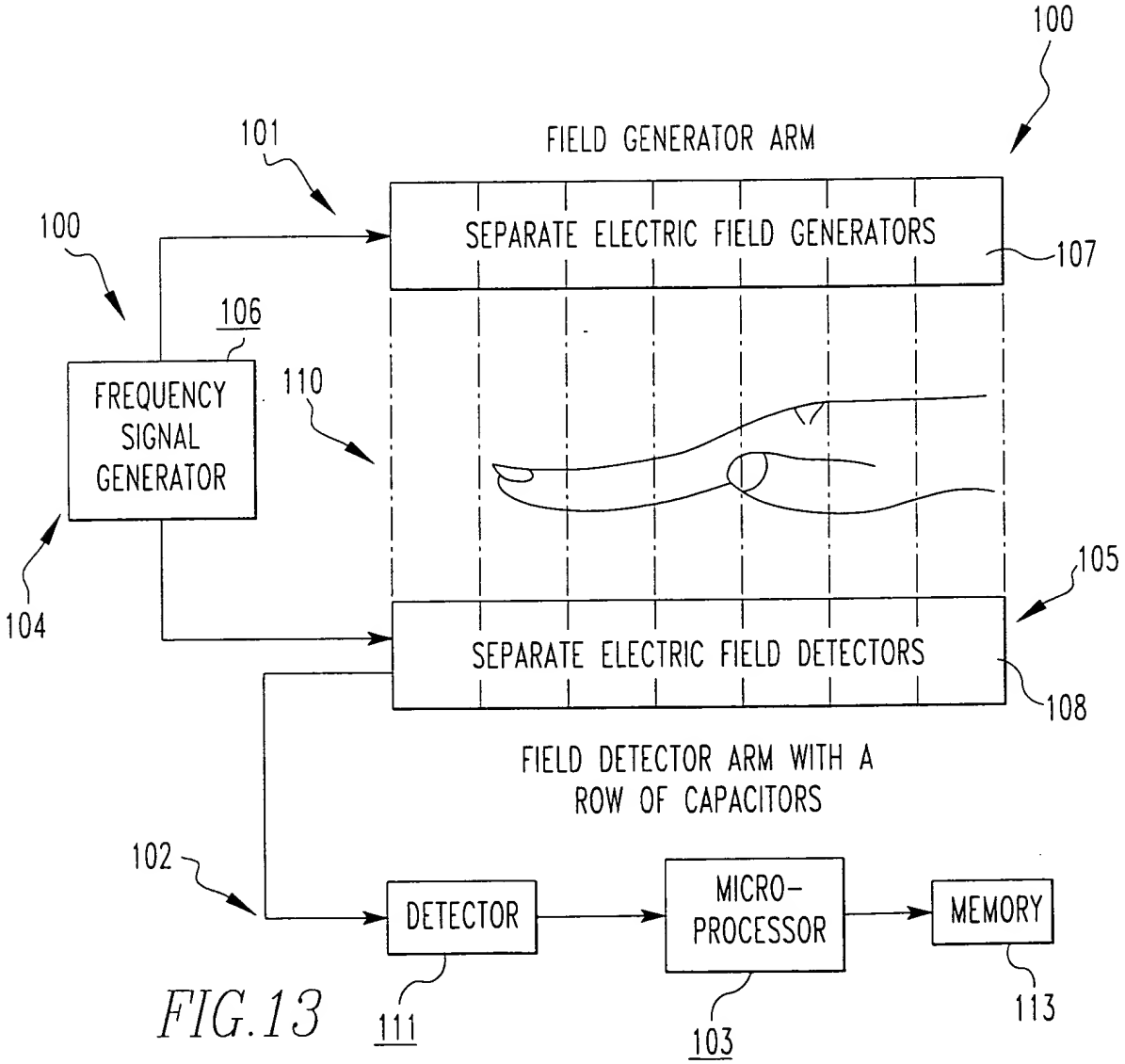
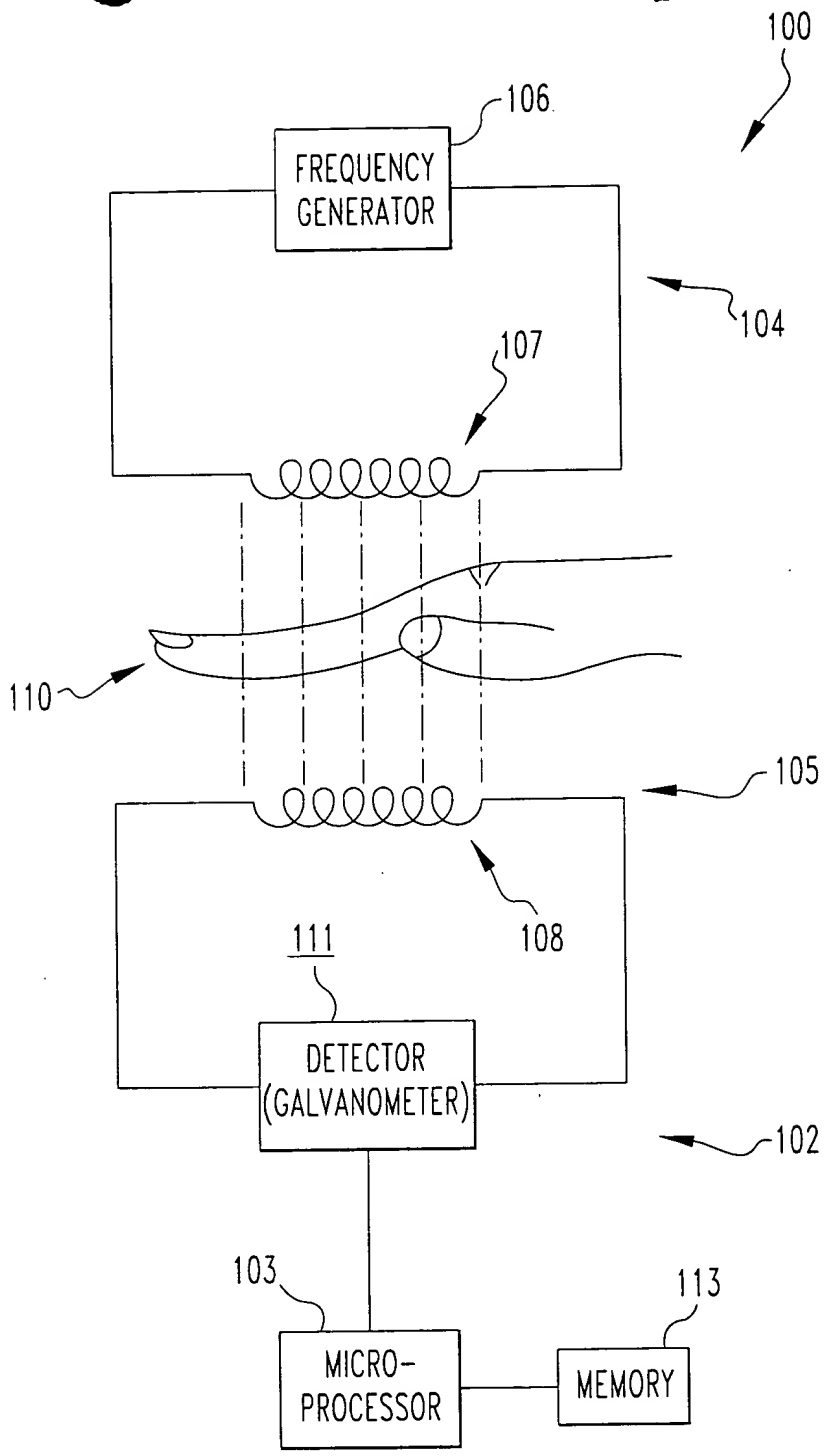


FIG.13



DETECTOR CAN BE A PHASE SENSITIVE DETECTOR

FIG.14

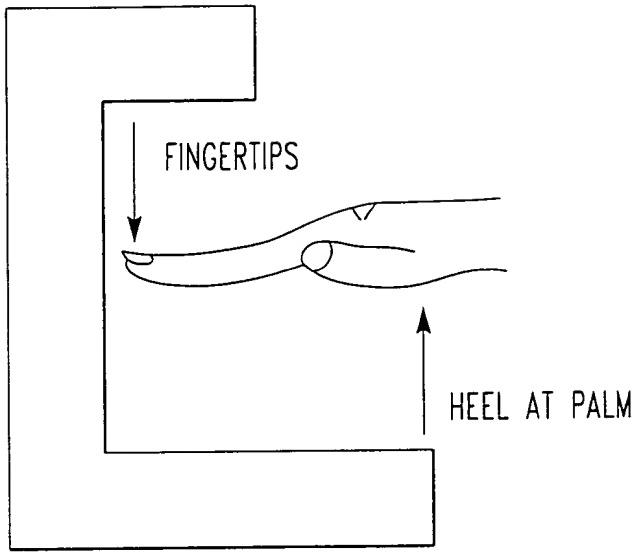


FIG.15

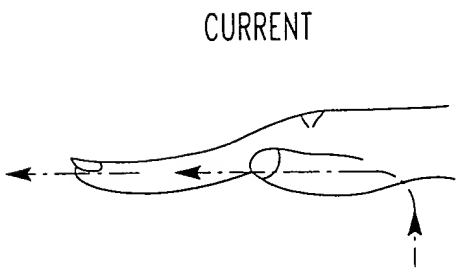


FIG.16

09364460 - 050469

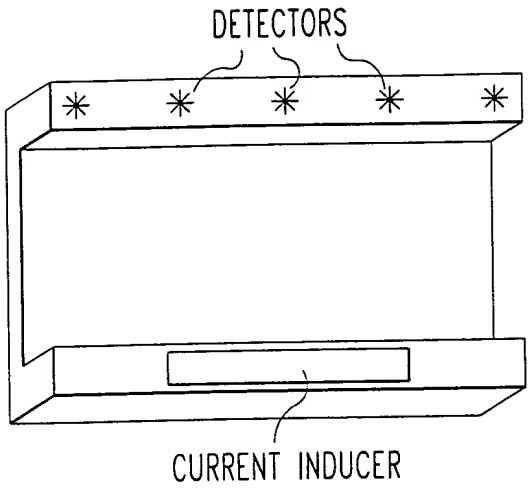


FIG.17a

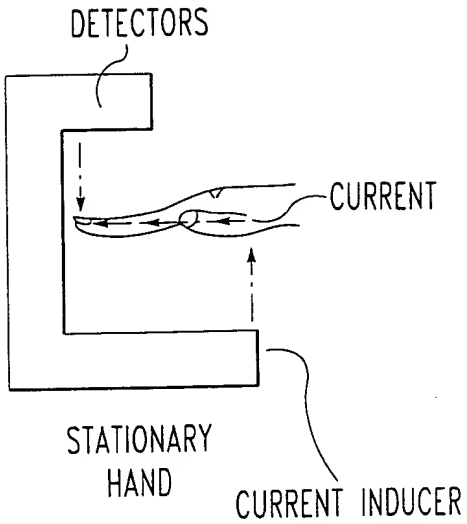


FIG.17b

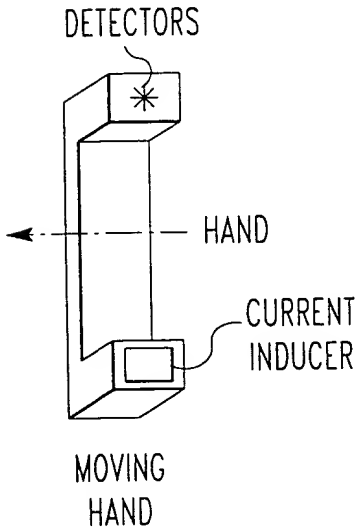


FIG.18a

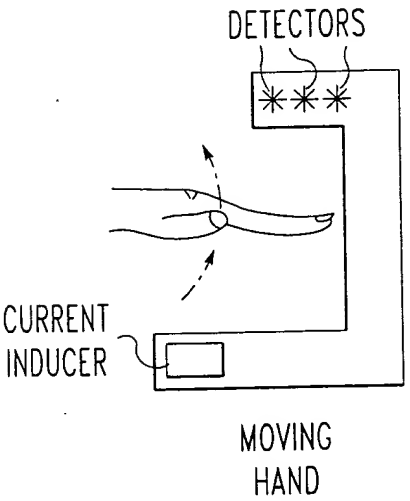


FIG.18b

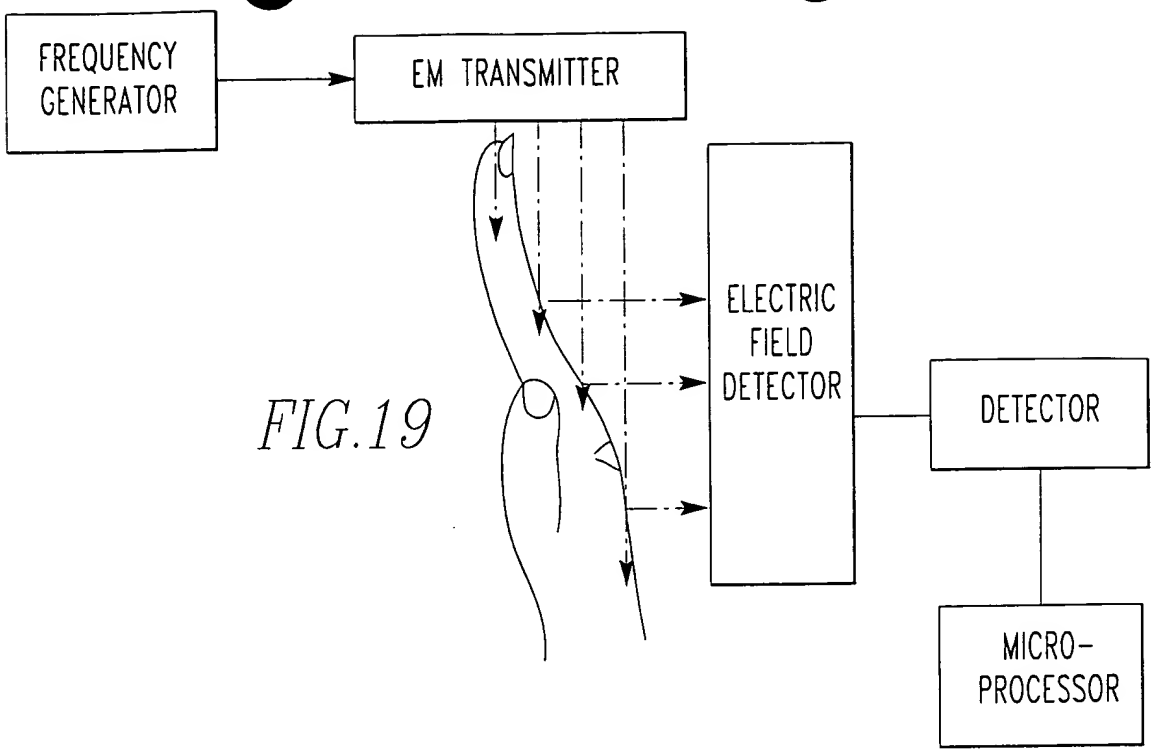

FREQUENCY GENERATOR
EM TRANSMITTER
ELECTRIC FIELD DETECTOR
DETECTOR
MICRO-PROCESSOR

FIG.19

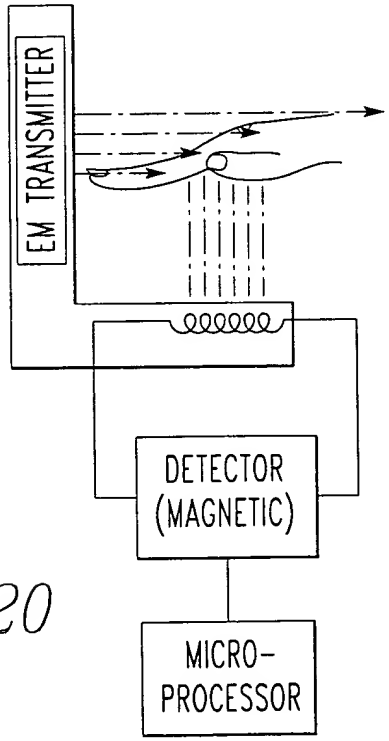

EM TRANSMITTER
DETECTOR (MAGNETIC)
MICRO-PROCESSOR

FIG.20

DETECTOR CAN MEASURE PHASE, AMPLITUDE, FREQUENCY, WAVE FORM, ETC.

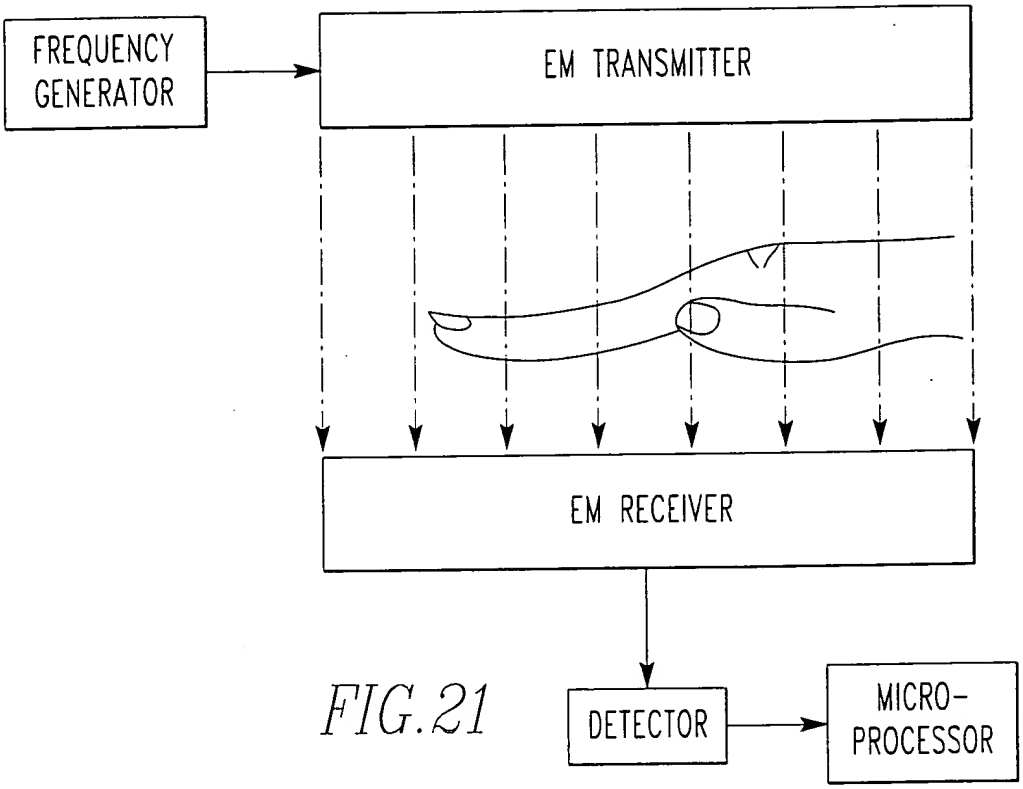


FIG.21

09654420 - 090406

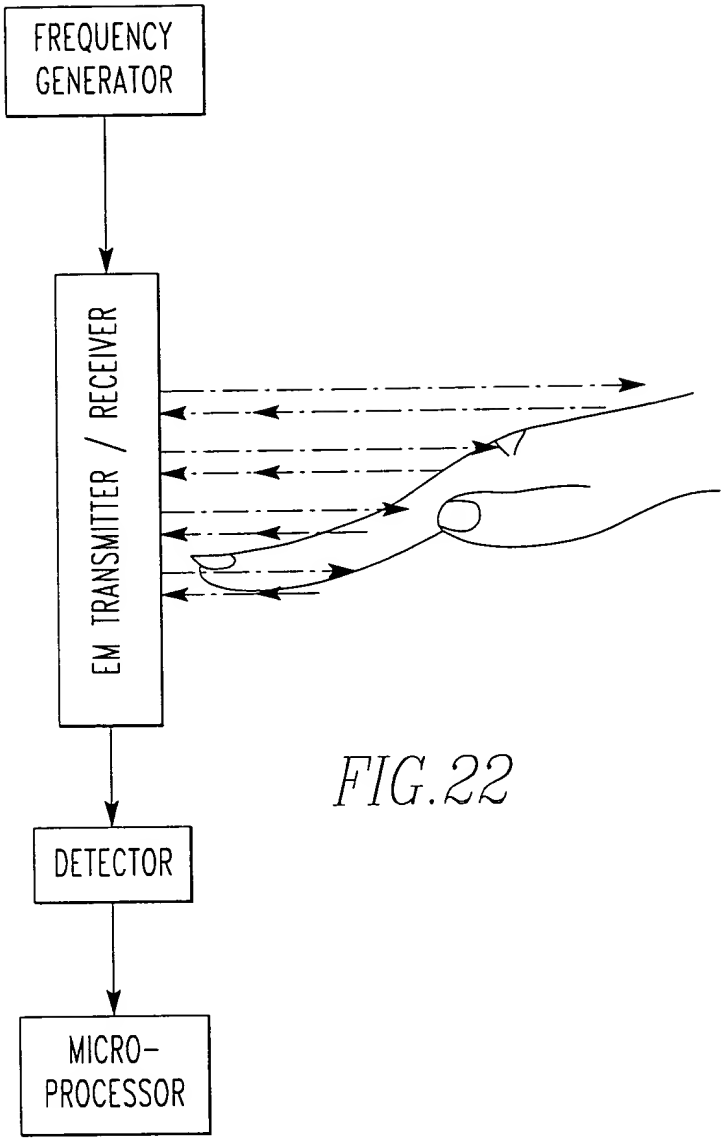

FREQUENCY GENERATOR
EM TRANSMITTER / RECEIVER
DETECTOR
MICRO-PROCESSOR

FIG.22

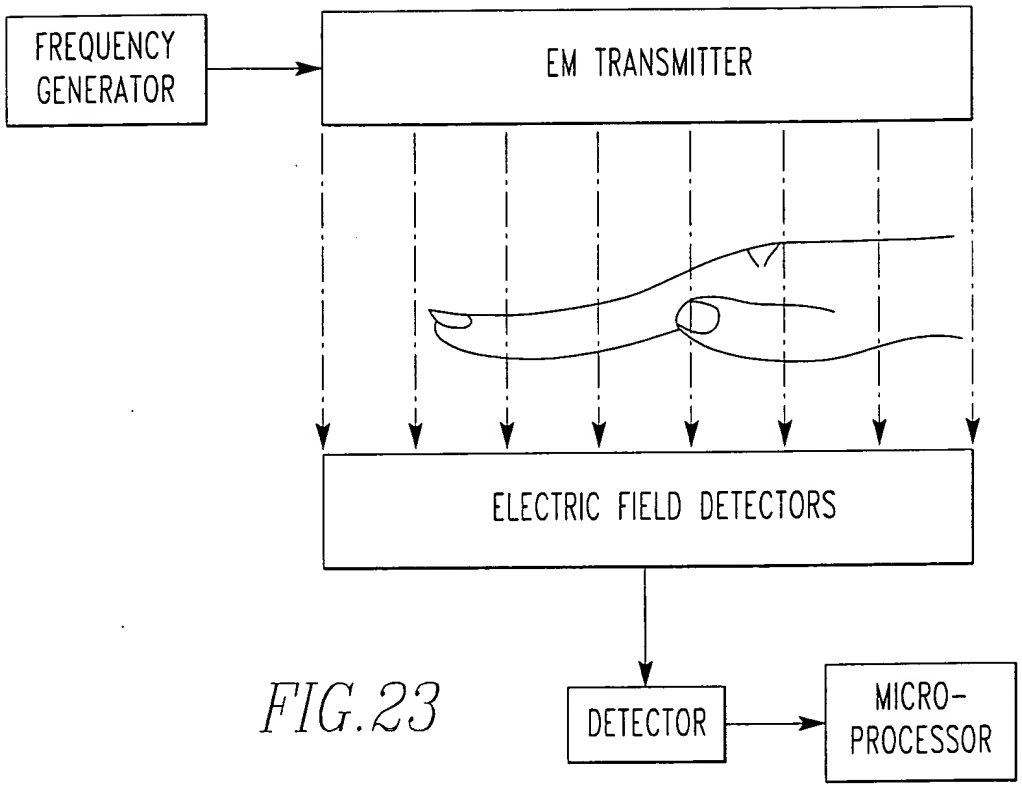
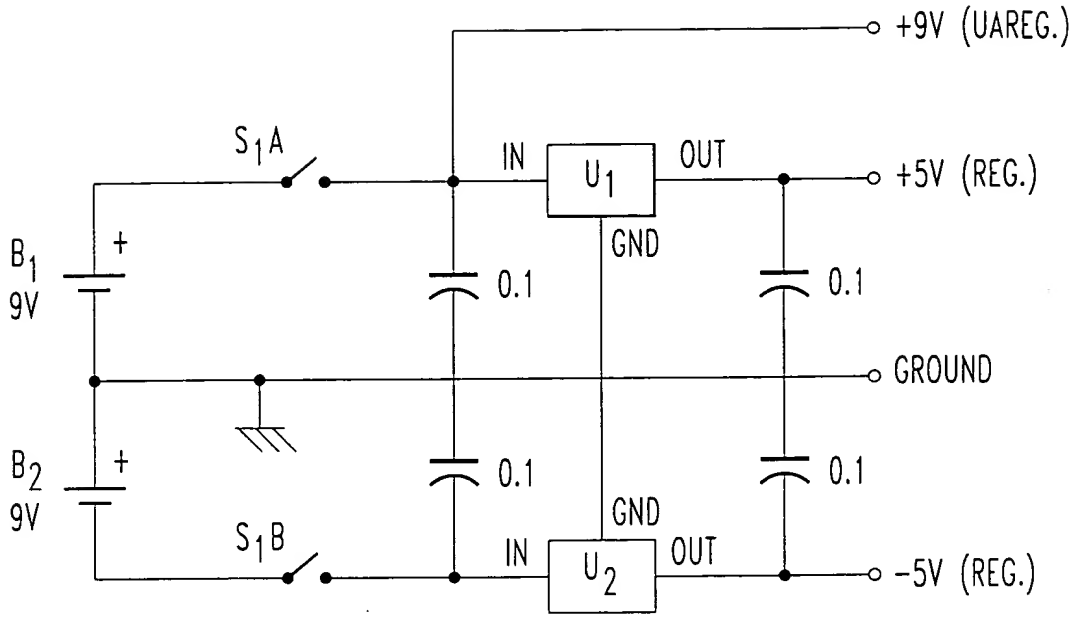

FREQUENCY GENERATOR
EM TRANSMITTER
ELECTRIC FIELD DETECTORS
DETECTOR
MICRO-PROCESSOR

FIG.23



U_1= 78L05ACLP POSITIVE 5 VOLT REGULATOR

U_2= 79L05CLP NEGATIVE 5 VOLT REGULATOR

S_1= DPST

POWER SUPPLY REGULATORS

FIG.24

0,0,0,0,4,5,0,-0,0,4,5,0,0

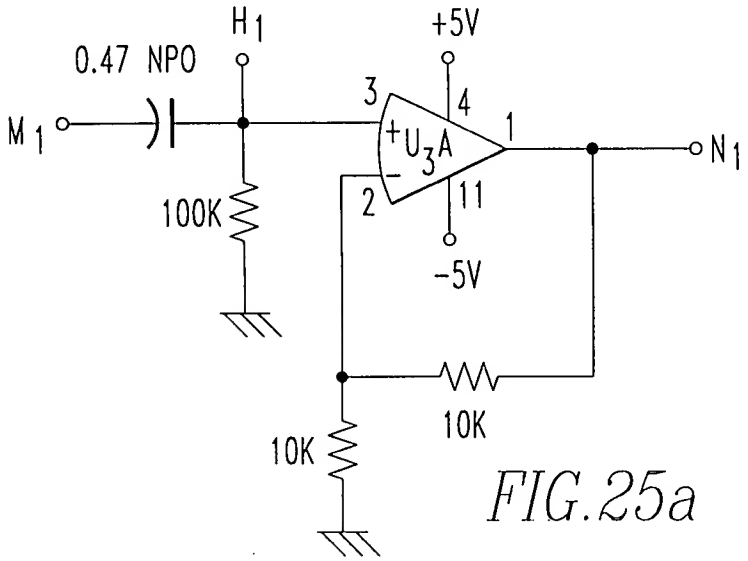


FIG.25a

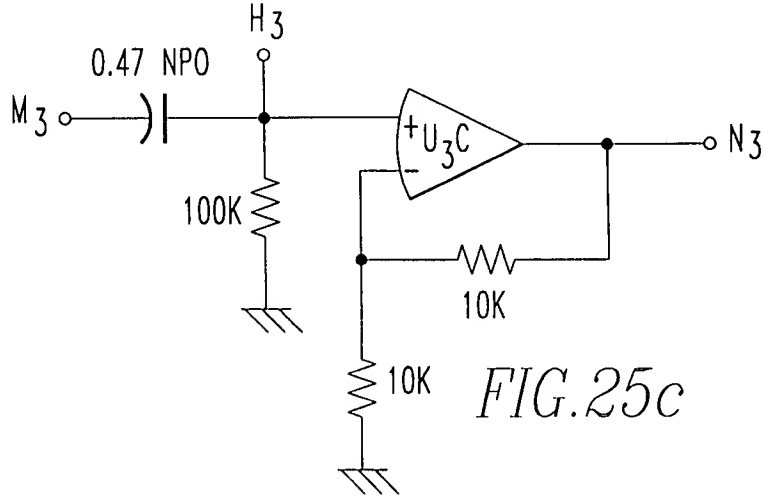


FIG.25c

U_3 = LT1058CN
HANDPIECE AMPLIFIER 1 THROUGH 4

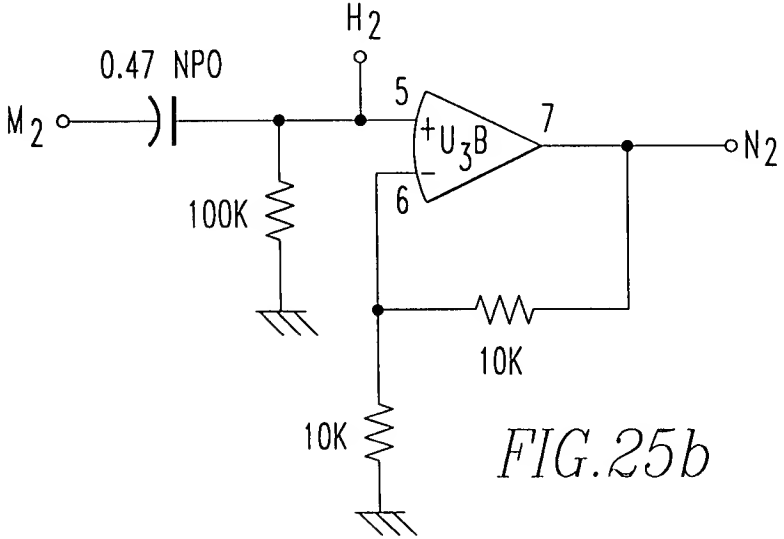


FIG.25b

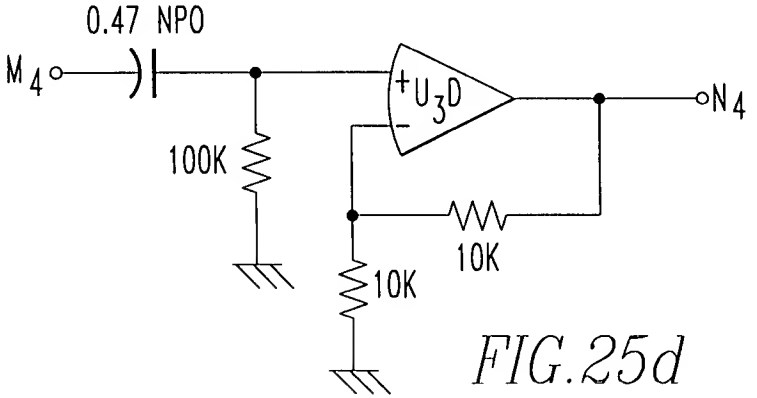


FIG.25d

09396412 .091699

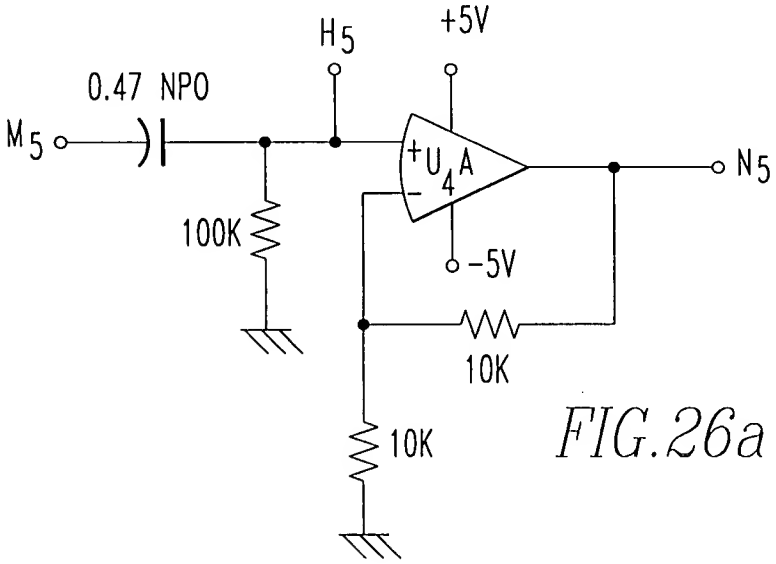


FIG.26a

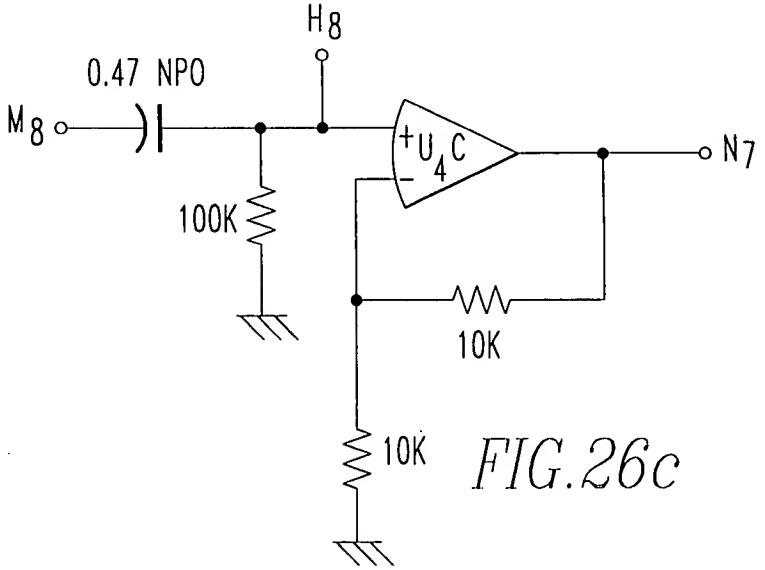


FIG.26c

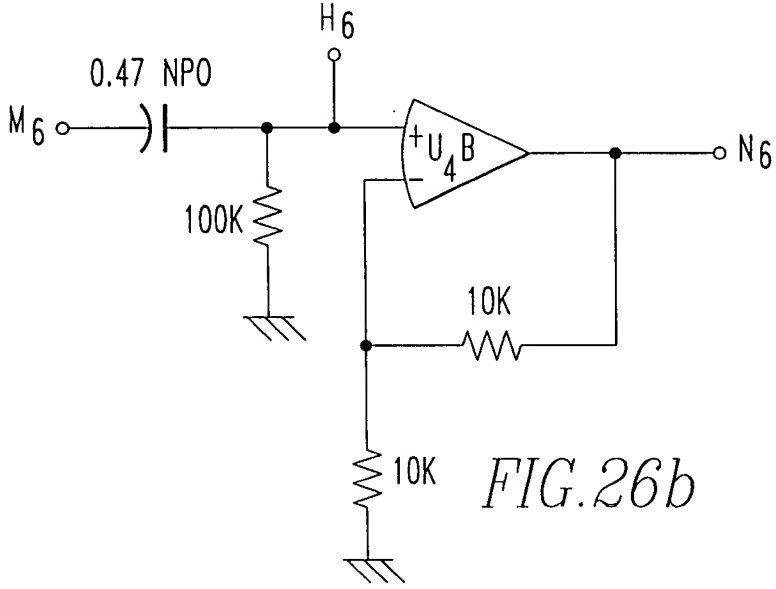


FIG.26b

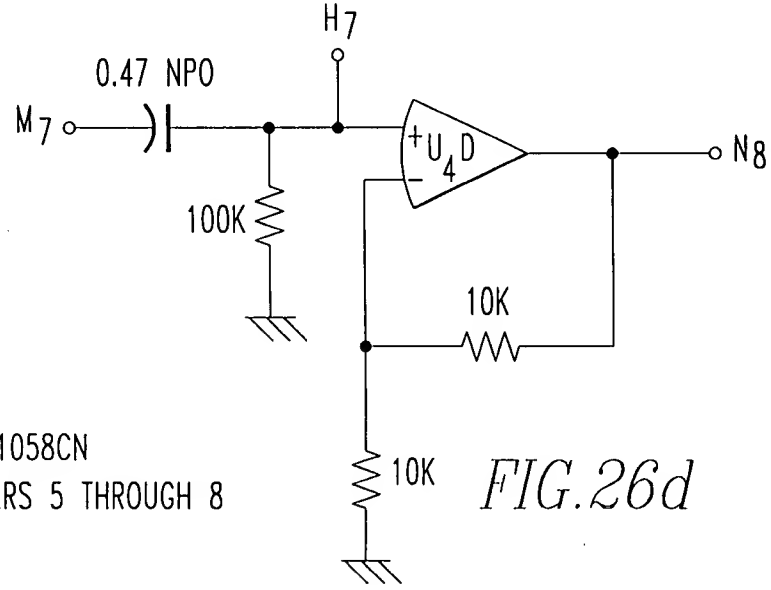
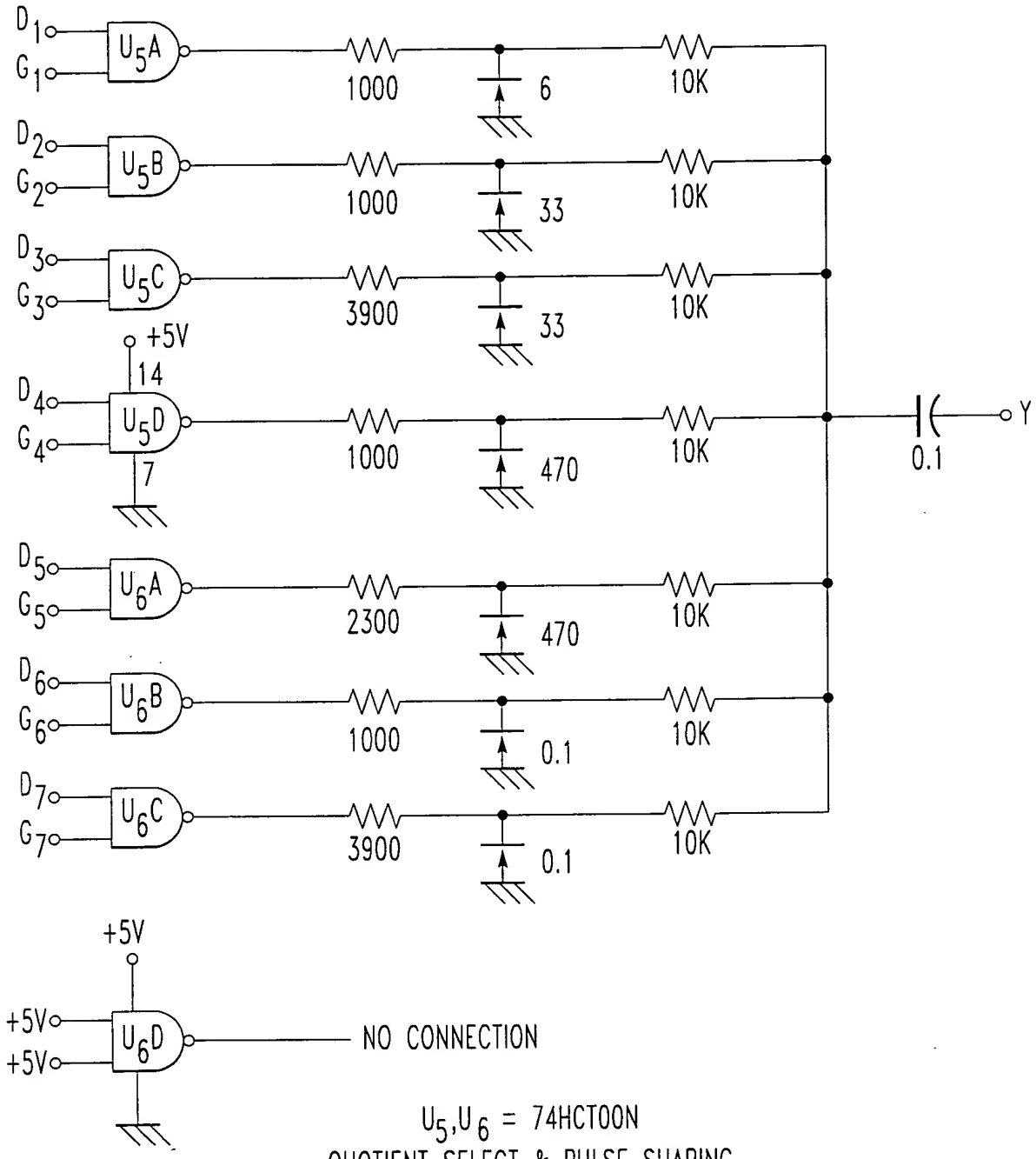


FIG.26d

U_4 = LT1058CN
HANDPIECE AMPLIFIERS 5 THROUGH 8

09296412 .091599



U_5, U_6 = 74HCTOON
QUOTIENT SELECT & PULSE SHAPING

FIG.27

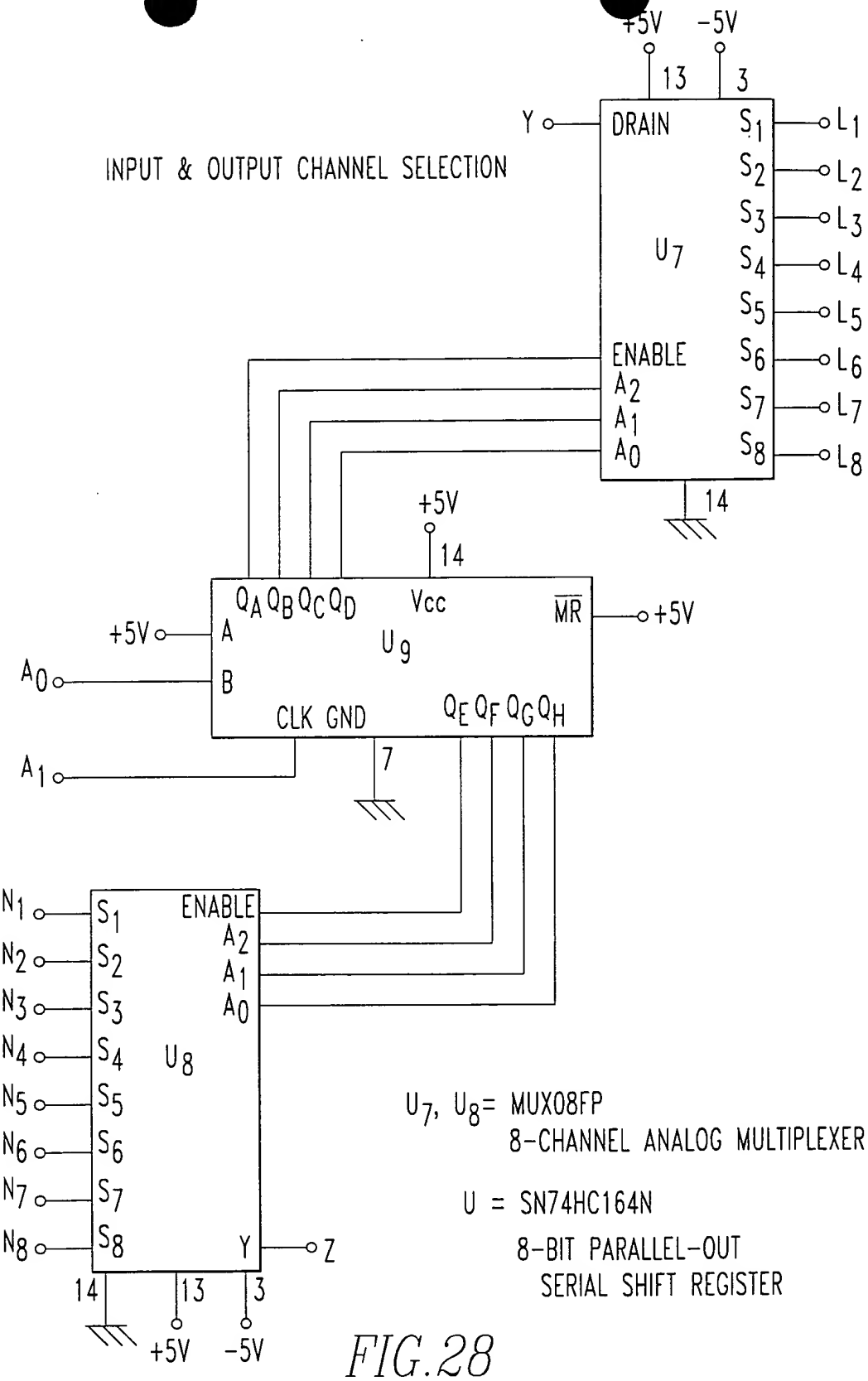
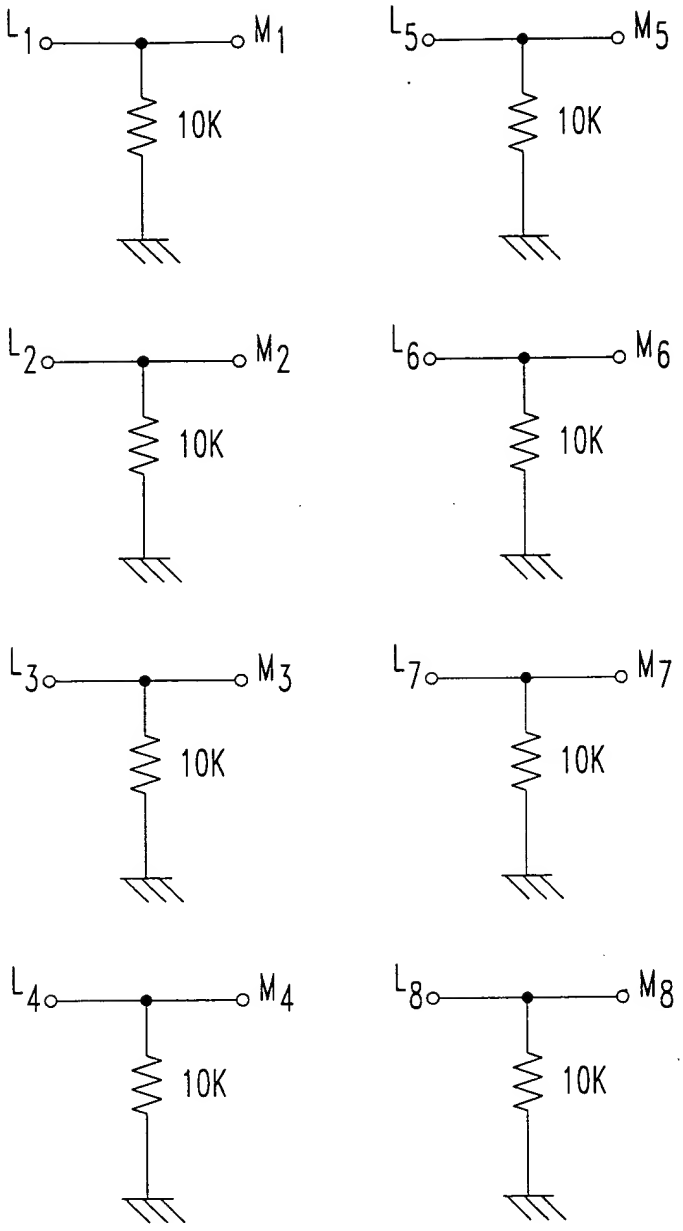

INPUT & OUTPUT CHANNEL SELECTION
+5V
-5V
13
3
Y
DRAIN
S_1
S_2
S_3
S_4
S_5
S_6
S_7
S_8
L_1
L_2
L_3
L_4
L_5
L_6
L_7
L_8
U_7
ENABLE
A_2
A_1
A_0
14
+5V
14
Q_A Q_B Q_C Q_D
Vcc
$\overline{MR}$
+5V
+5V
A
B
U_9
A_0
A_1
CLK GND
Q_E Q_F Q_G Q_H
7
N_1
N_2
N_3
N_4
N_5
N_6
N_7
N_8
S_1
S_2
S_3
S_4
S_5
S_6
S_7
S_8
ENABLE
A_2
A_1
A_0
U_8
Y
Z
14
13
3
+5V
-5V
U_7, U_8= MUX08FP
8-CHANNEL ANALOG MULTIPLEXER
U = SN74HC164N
8-BIT PARALLEL-OUT
SERIAL SHIFT REGISTER

FIG.28



OUTPUT MUX LOAD RESISTORS

FIG.29

5,959,468

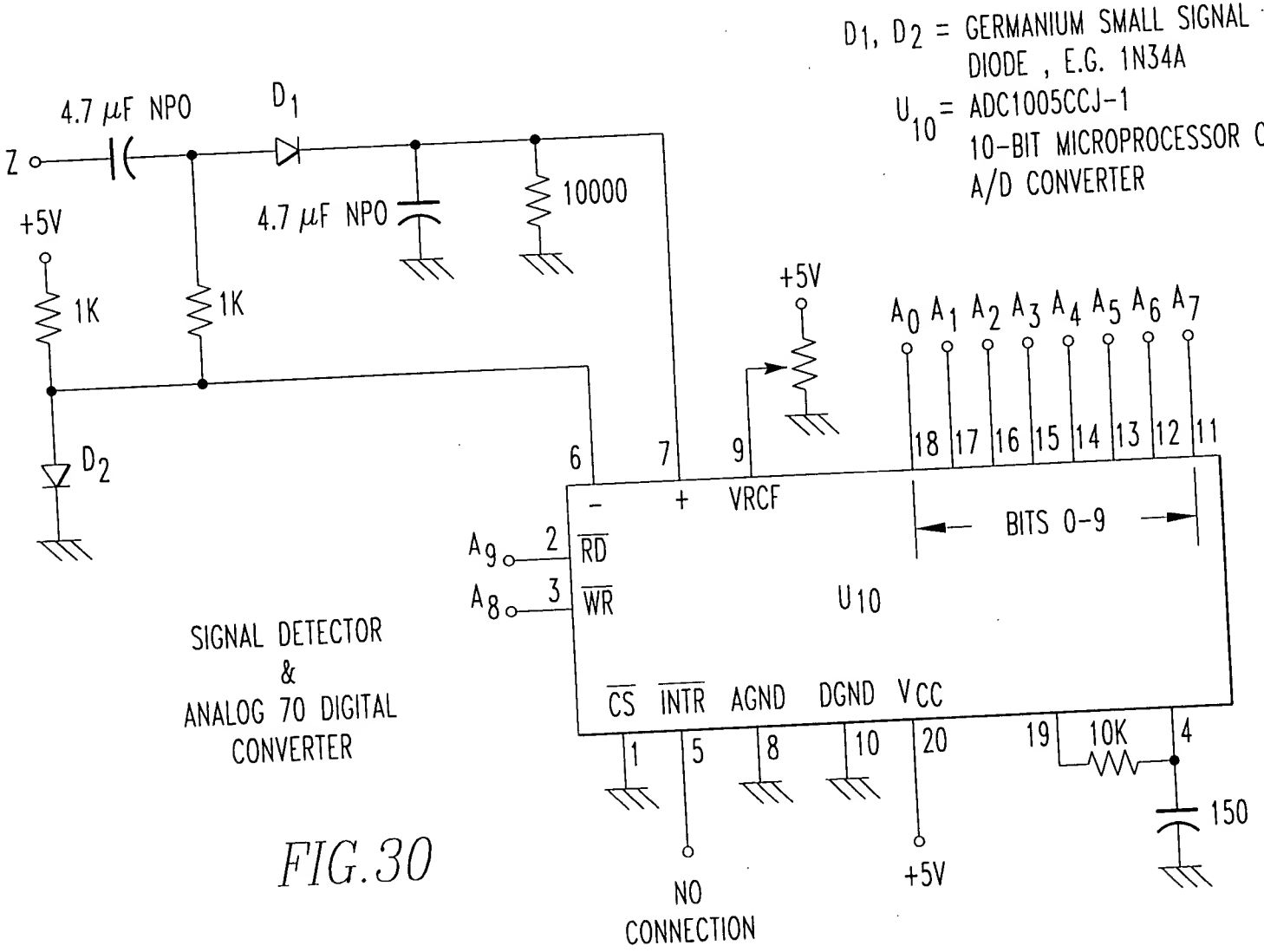
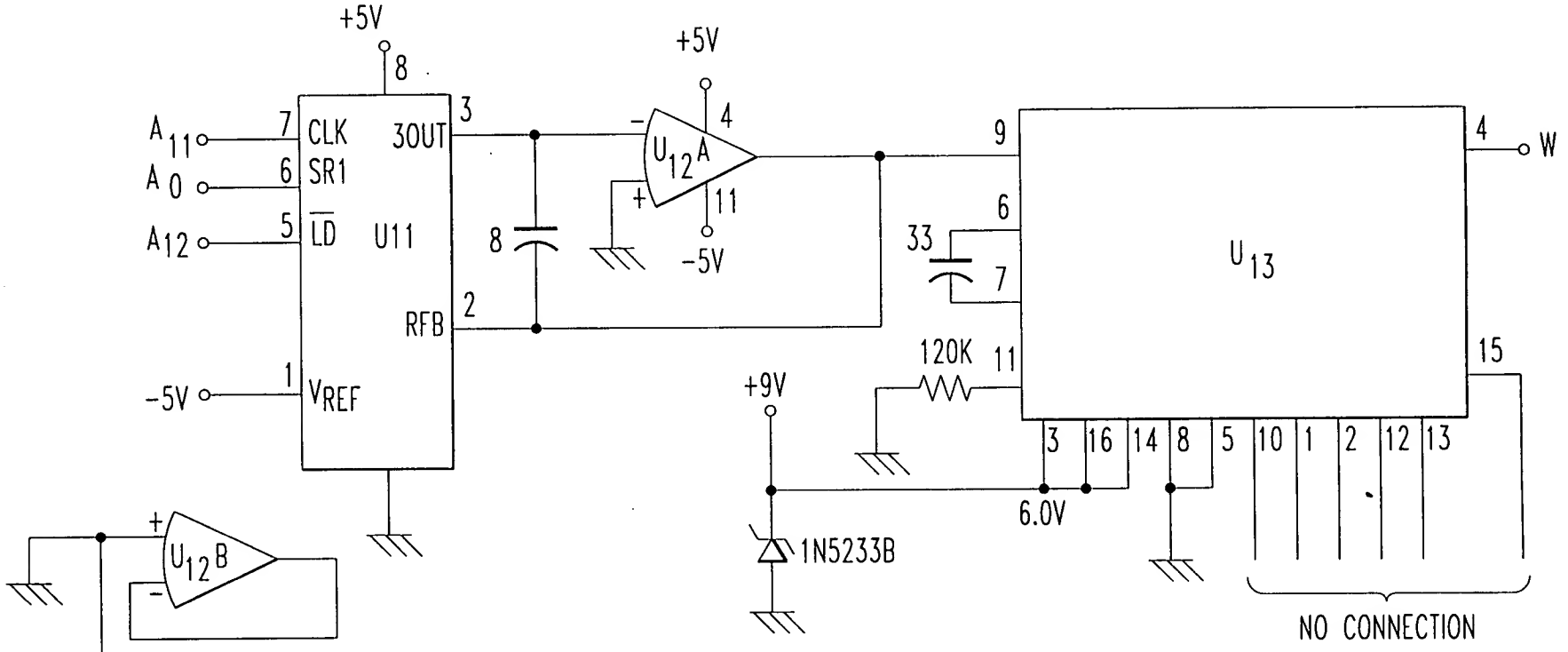


FIG.30

09396112.091699



U12B-D
NOT USED; CONNECTED
TO DO NOTHING

D-TO-A CONVERTER, BUFFER, & VCO

U_{11}= DAC8043FP
12-BIT SERIAL INPUT MULTIPLYING CMOS D/A CONVERTER

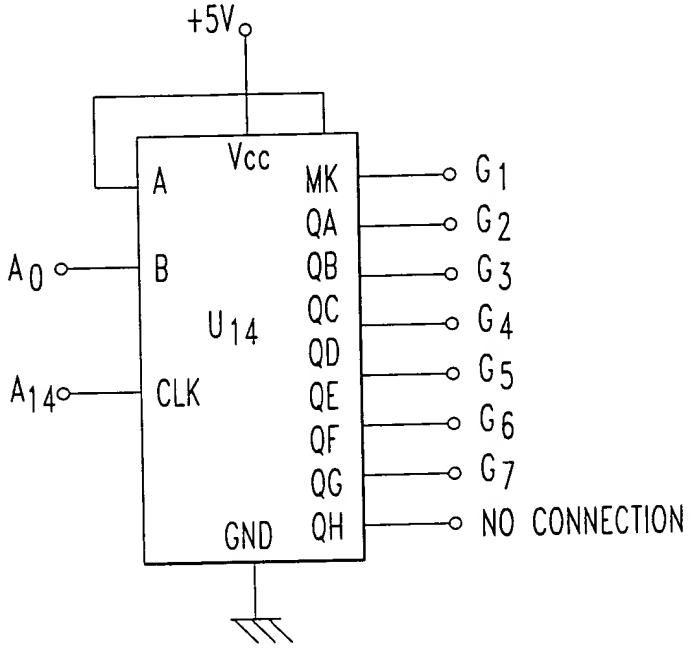
U_{12}= LM324N
QUAD OP-AMP (3 SECTIONS UNUSED)

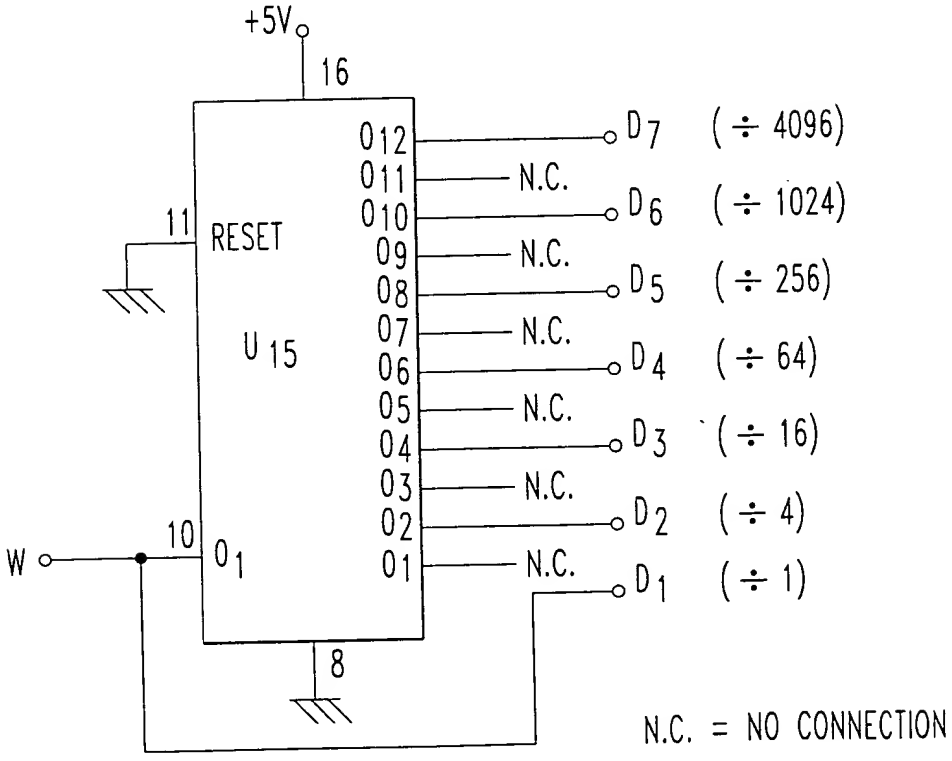
U_{13}= CD74HCT4046AE
PHASE LOCKED LOOP (VCO SECTION USED, COMPARATORS NOT USED)

FIG.31

09306112.091599

FREQUENCY DIVIDER & FREQUENCY DIVIDER
GATE SHIFT REGISTER

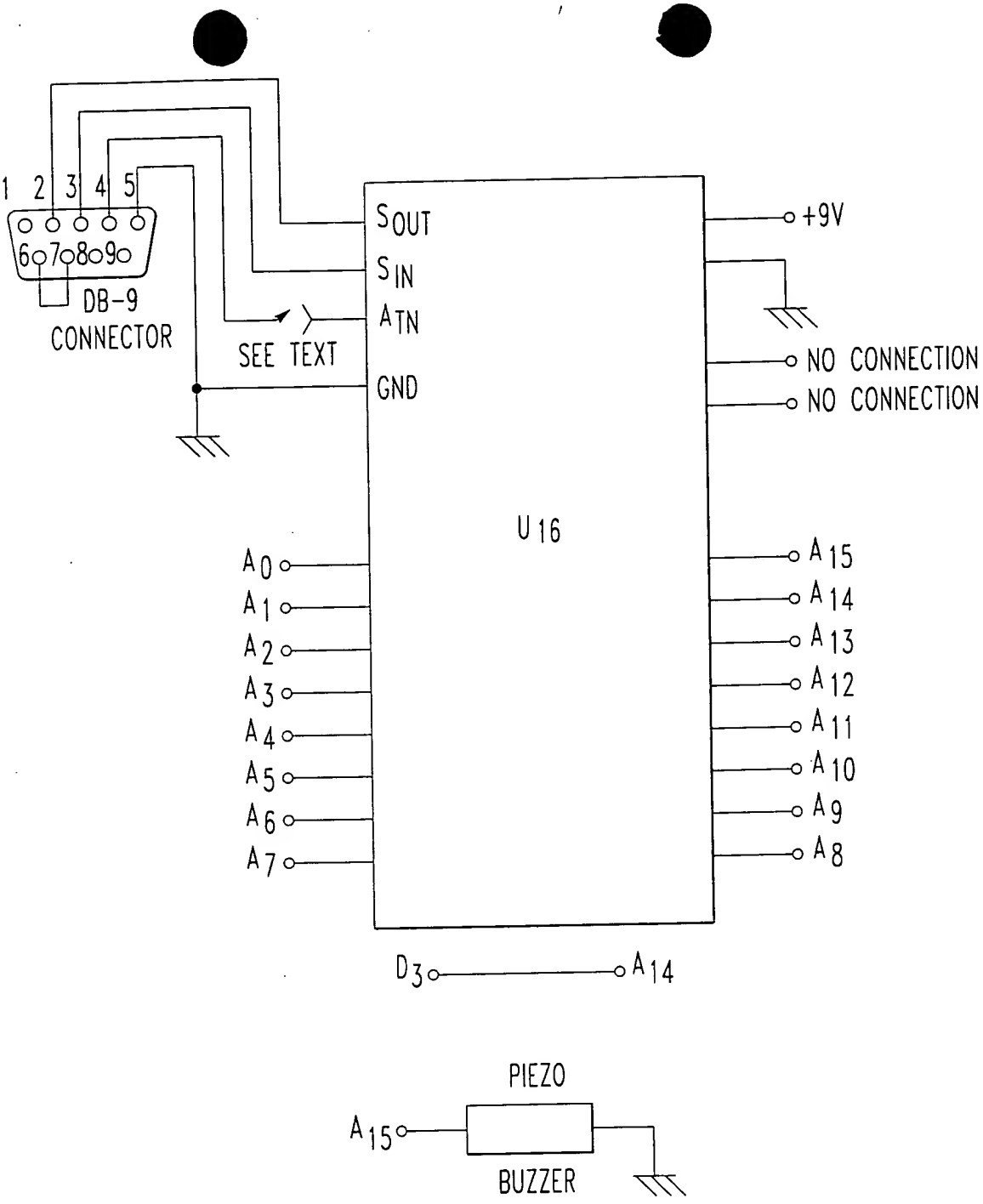




U_{14} = SN74HCI64N
8-BIT PARALLEL-OUT SERIAL SHIFT REGISTER

U_{15} = 74HC4040
12-STAGE RIPPLE CARRY BINARY COUNTER

FIG. 32



MICROPROCESSOR
U_{16}= PARALLAX, INC. BASIC STAMP II
MICROCONTROLLER W/2048-BYTE EEPROM,
26 BYTE RAM, 16 1/0 LINES & SERIAL INTERFACE.

FIG.33

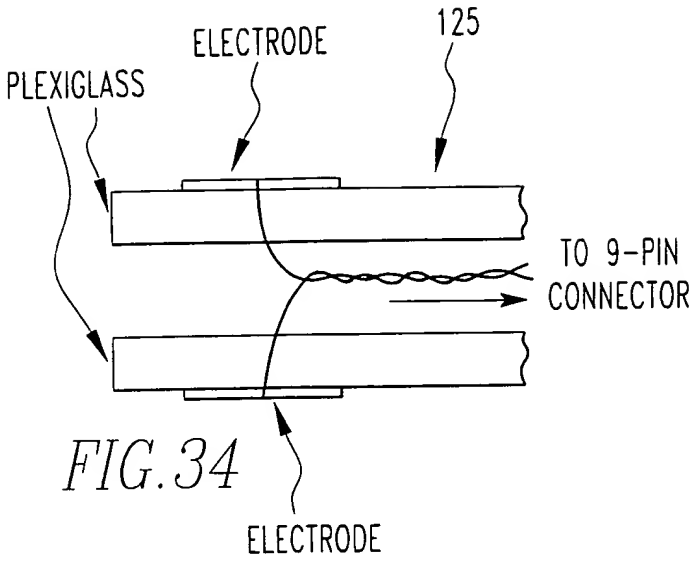


FIG.34

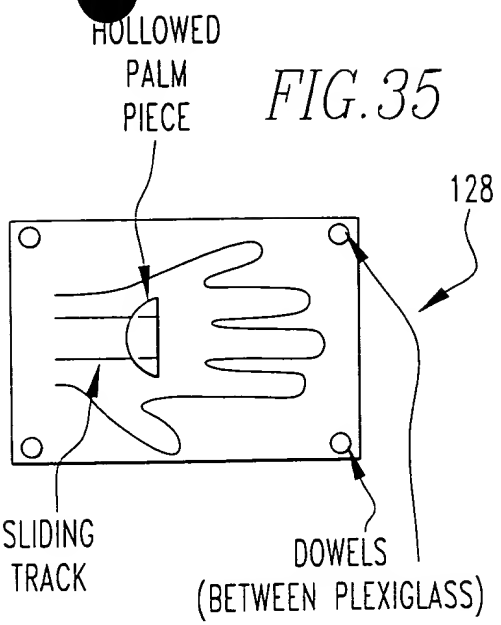


FIG.35

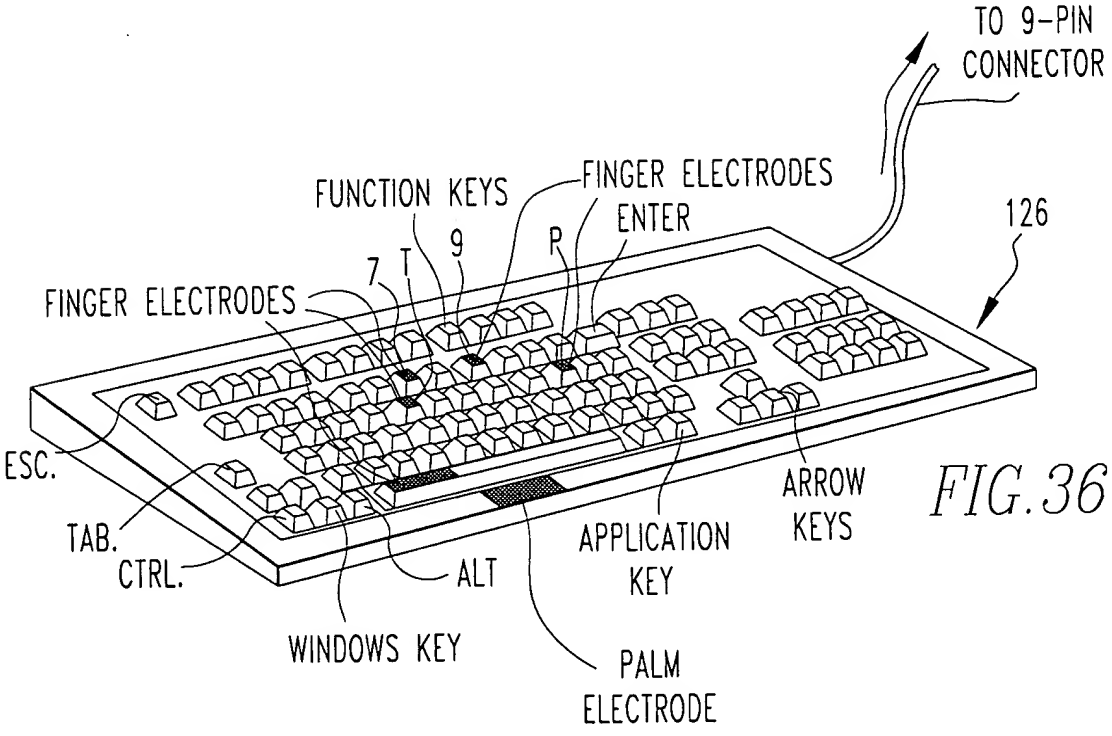


FIG.36

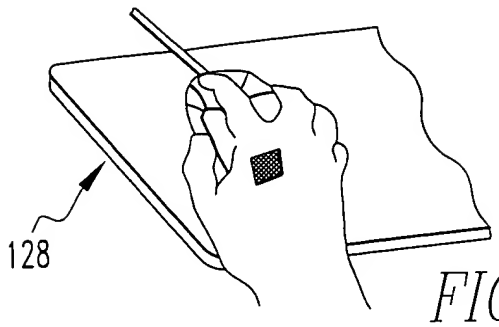


FIG.37

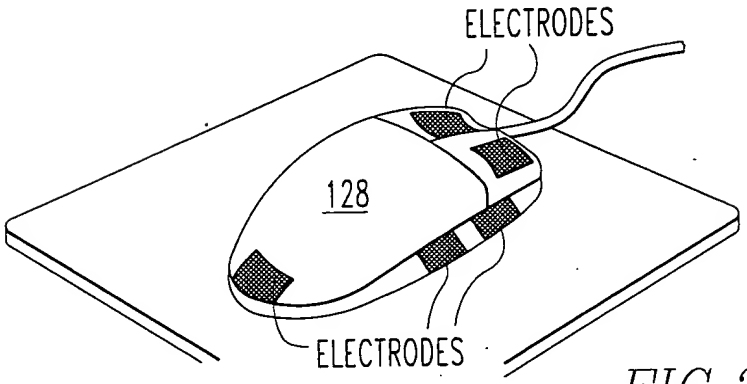


FIG.38

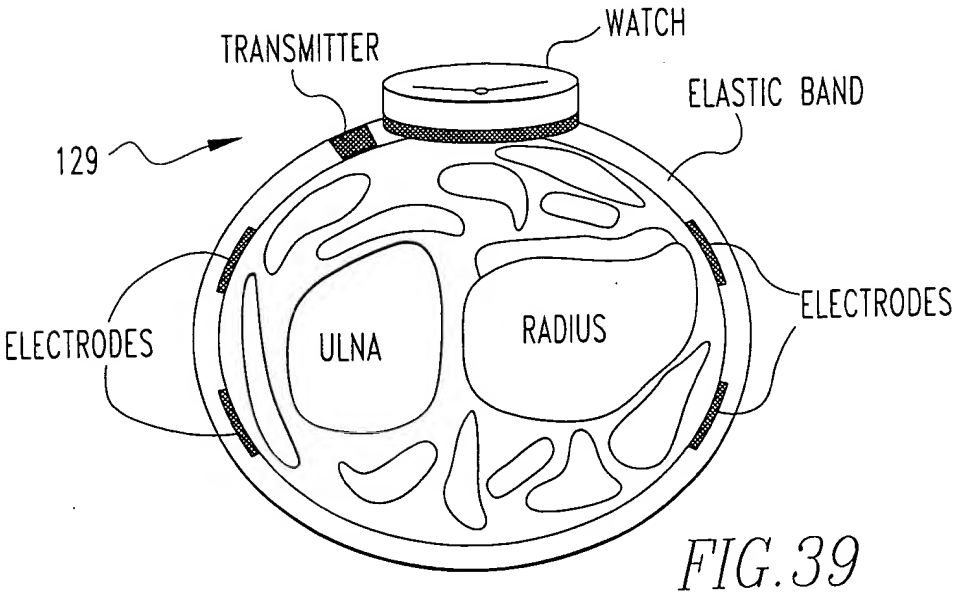


FIG.39

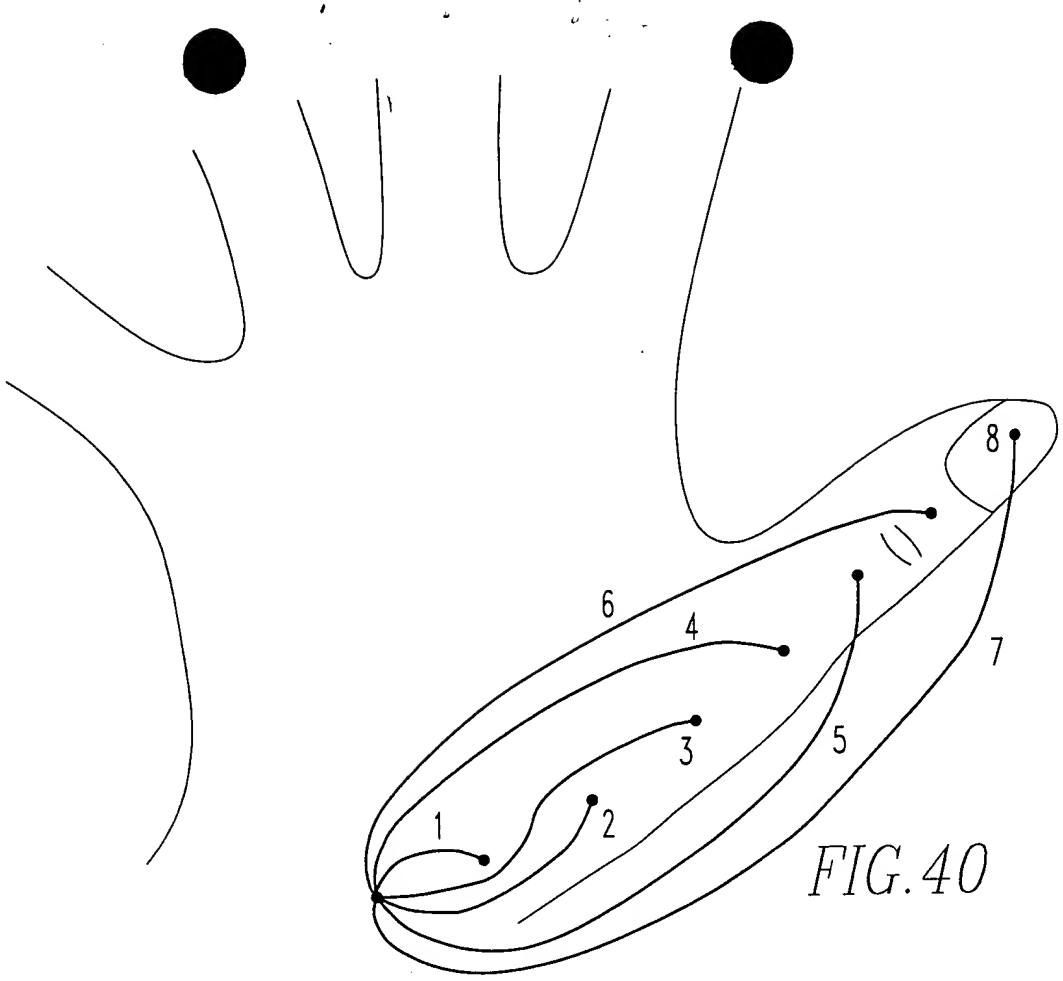


FIG.40

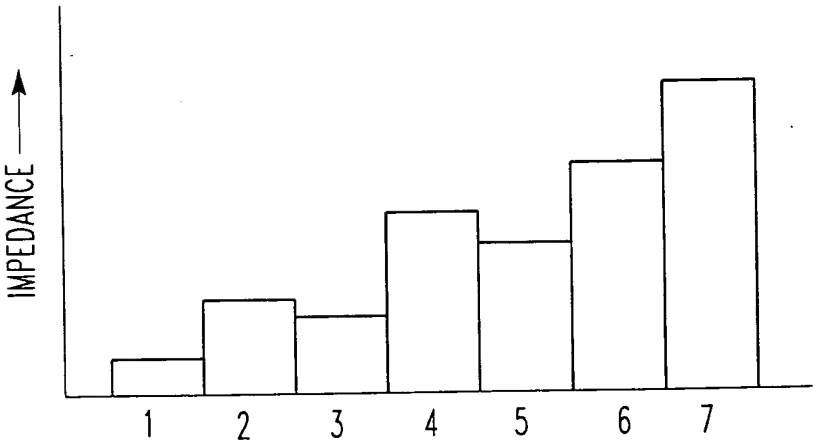


FIG.41

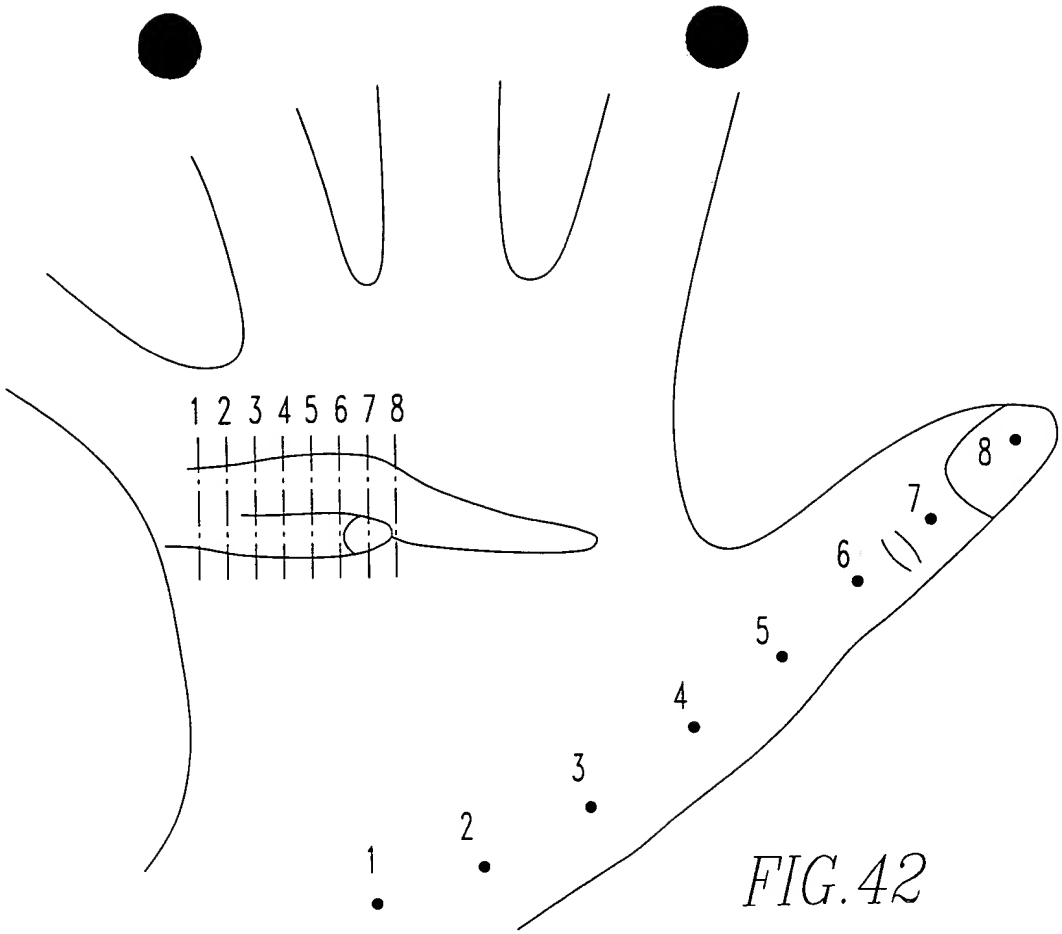


FIG.42

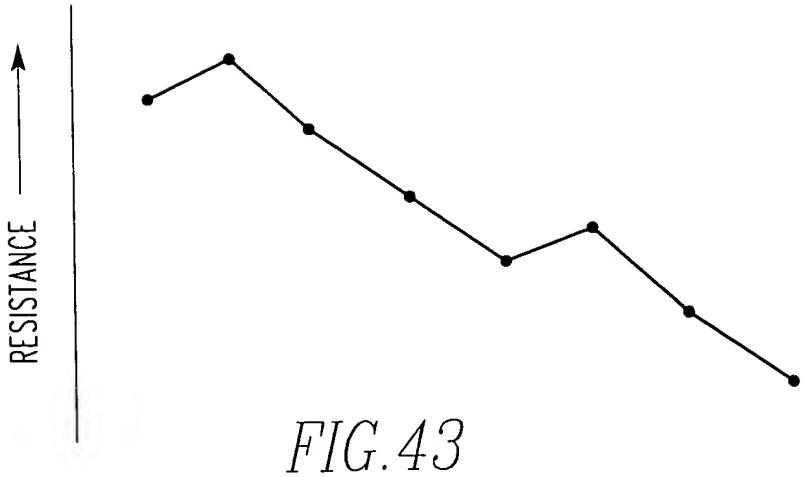


FIG.43

5,655,540

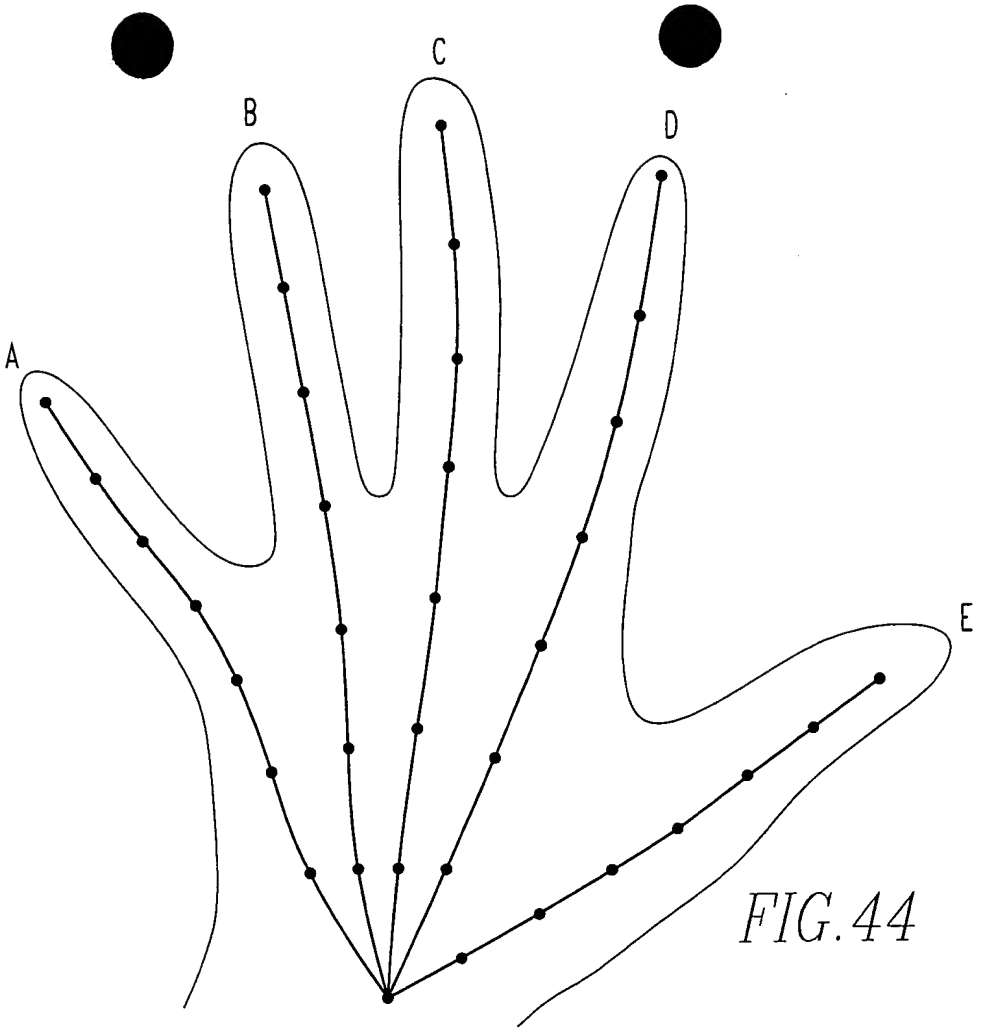


FIG. 44

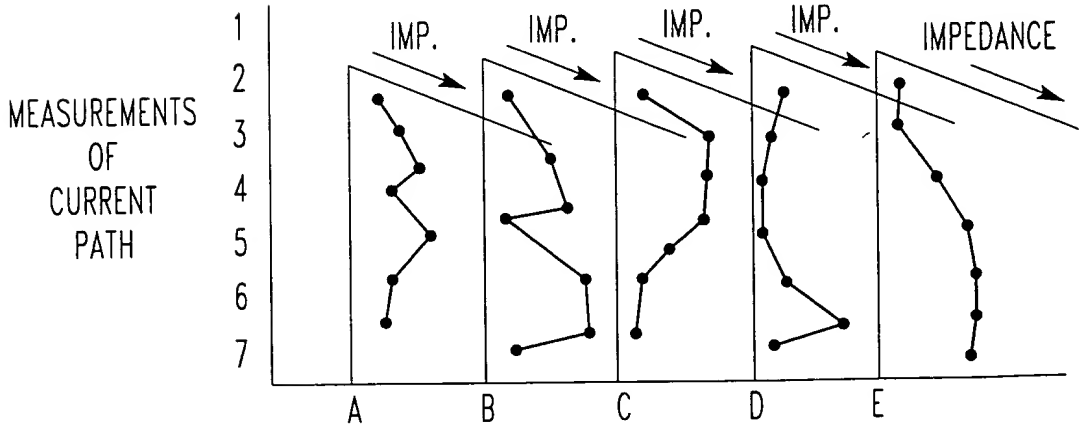


FIG. 45

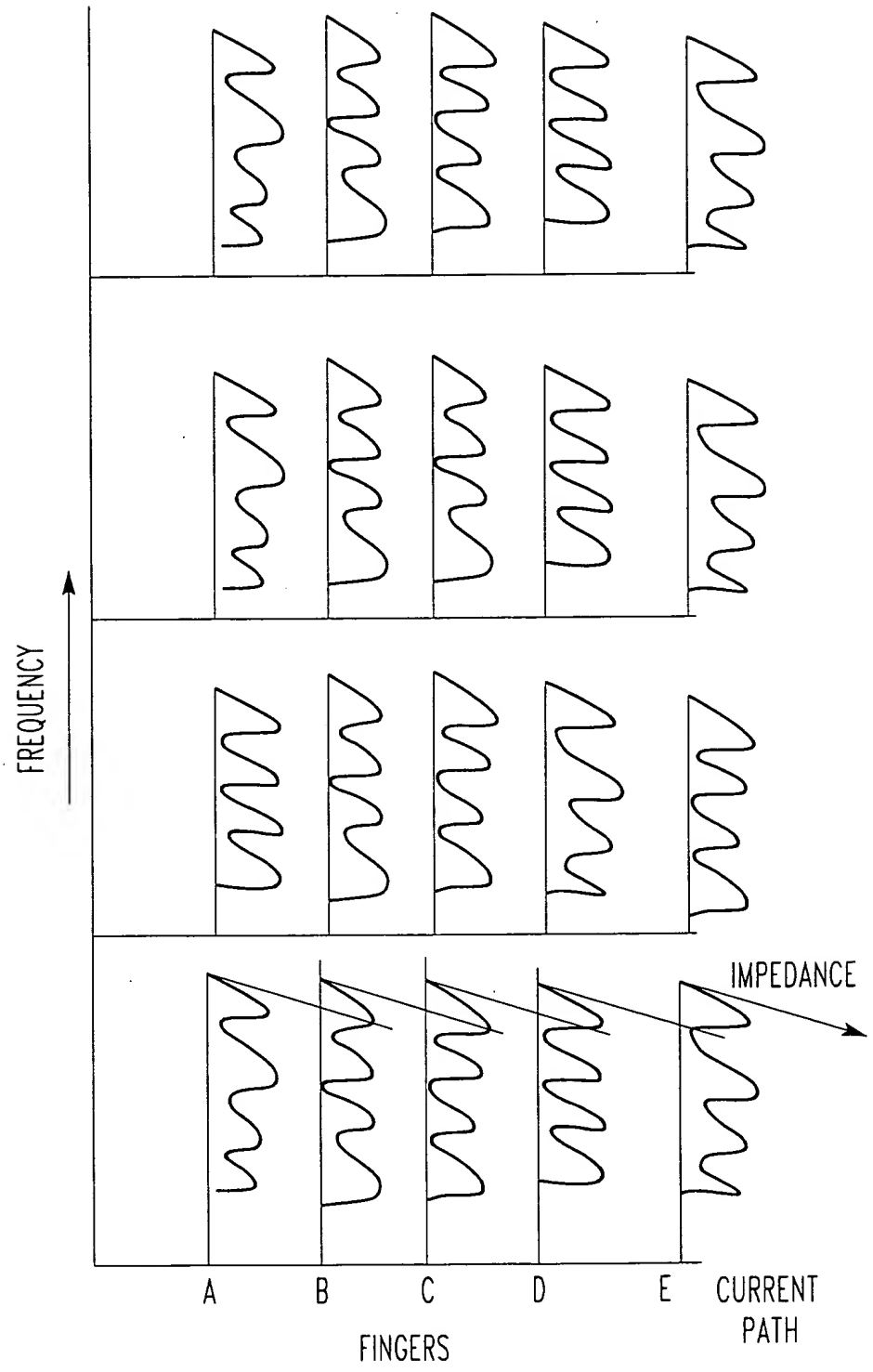


FIG. 46

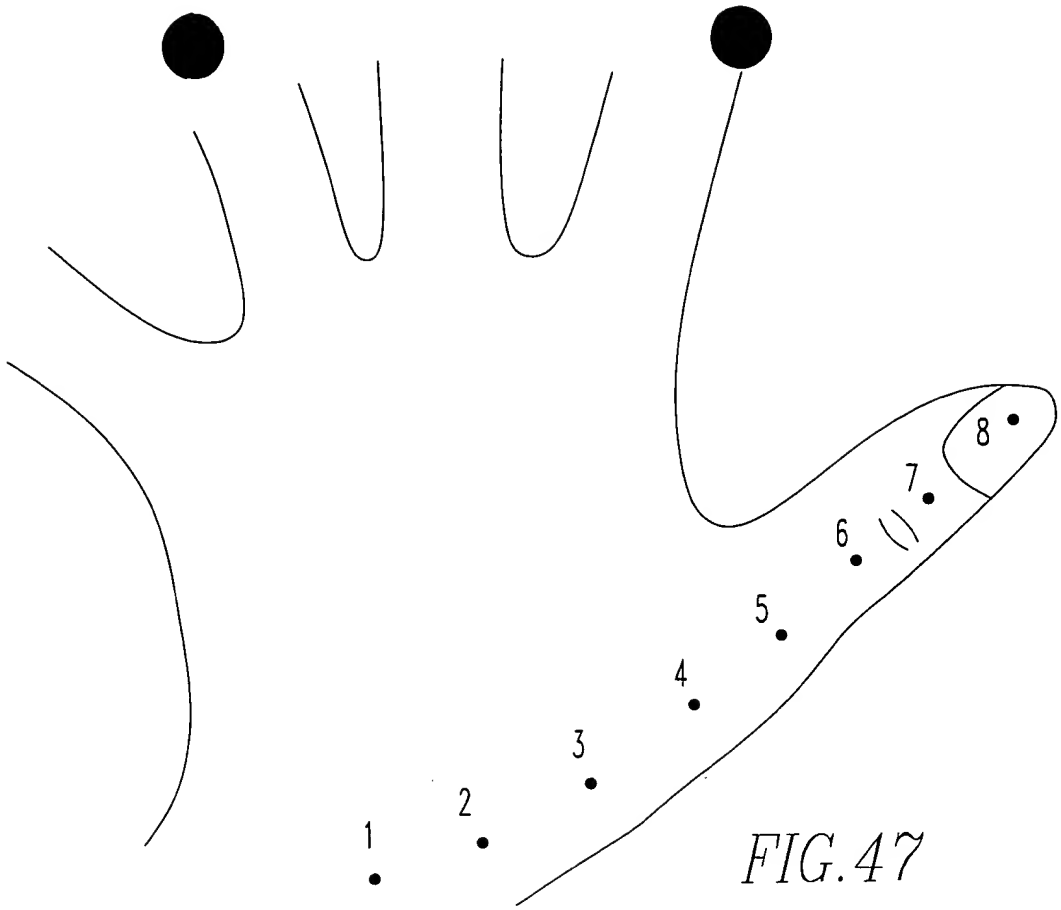

1
2
3
4
5
6
7
8

FIG.47

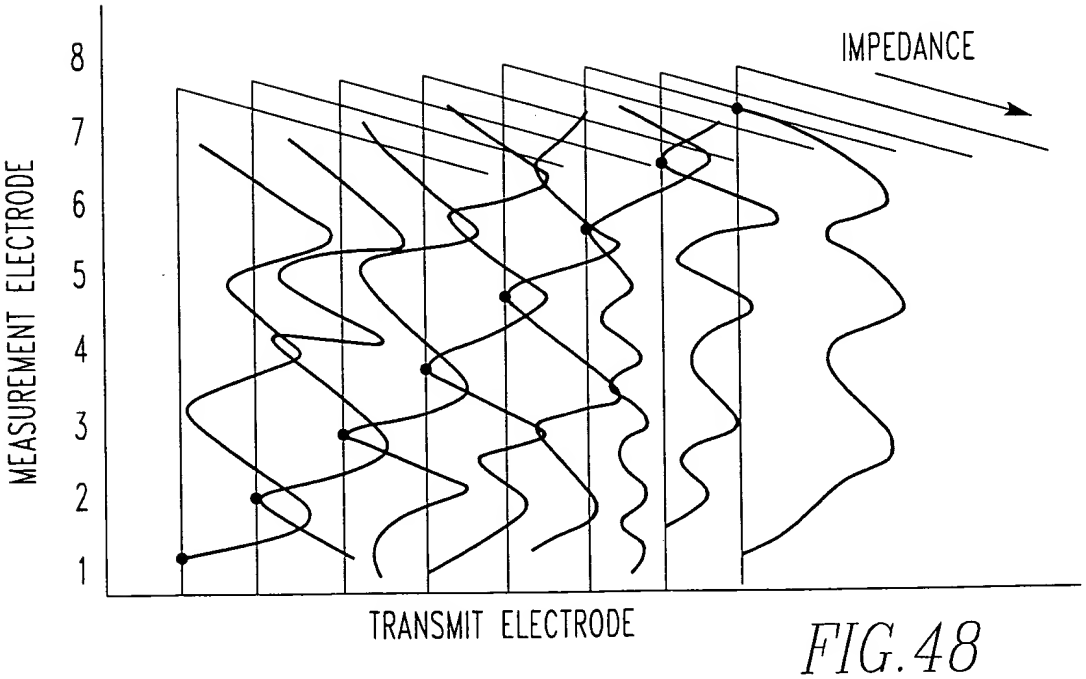

IMPEDANCE
MEASUREMENT ELECTRODE
8
7
6
5
4
3
2
1
TRANSMIT ELECTRODE

FIG.48

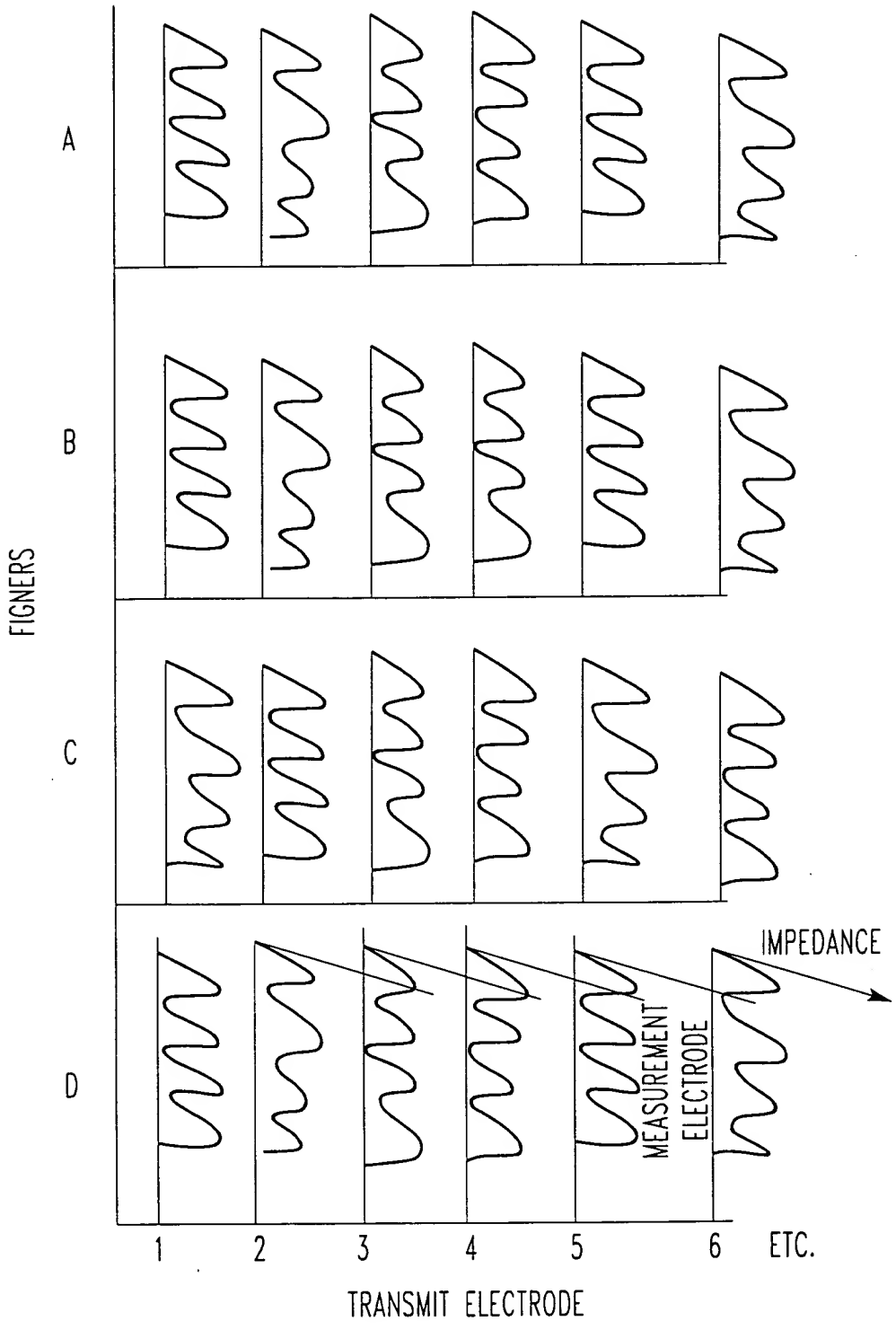

A
B
C
D
FIGNERS
IMPEDANCE
MEASUREMENT ELECTRODE
1
2
3
4
5
6
ETC.
TRANSMIT ELECTRODE

FIG.49

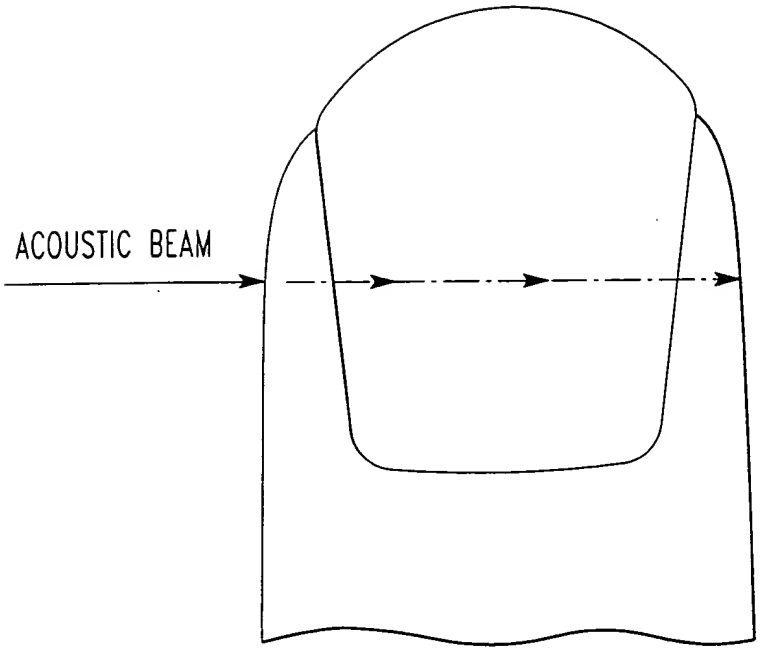


FIG.50

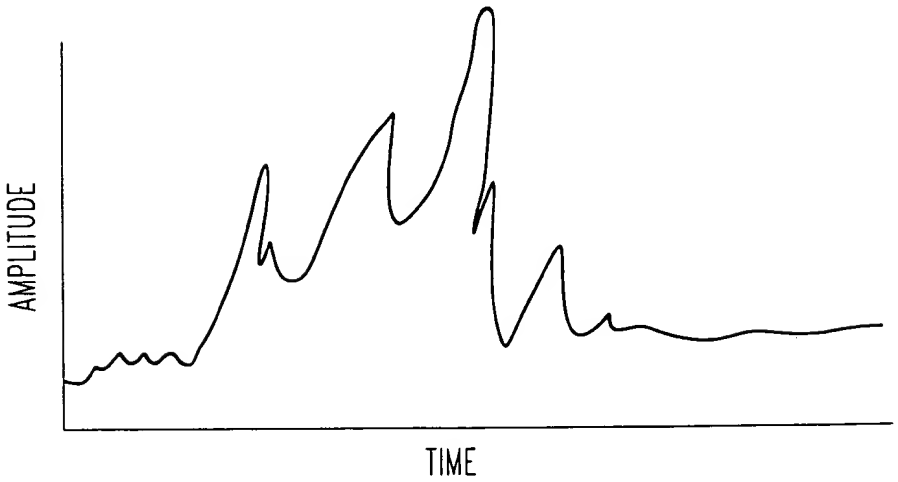


FIG.51

6,254,550 2-4-96 3,5,6

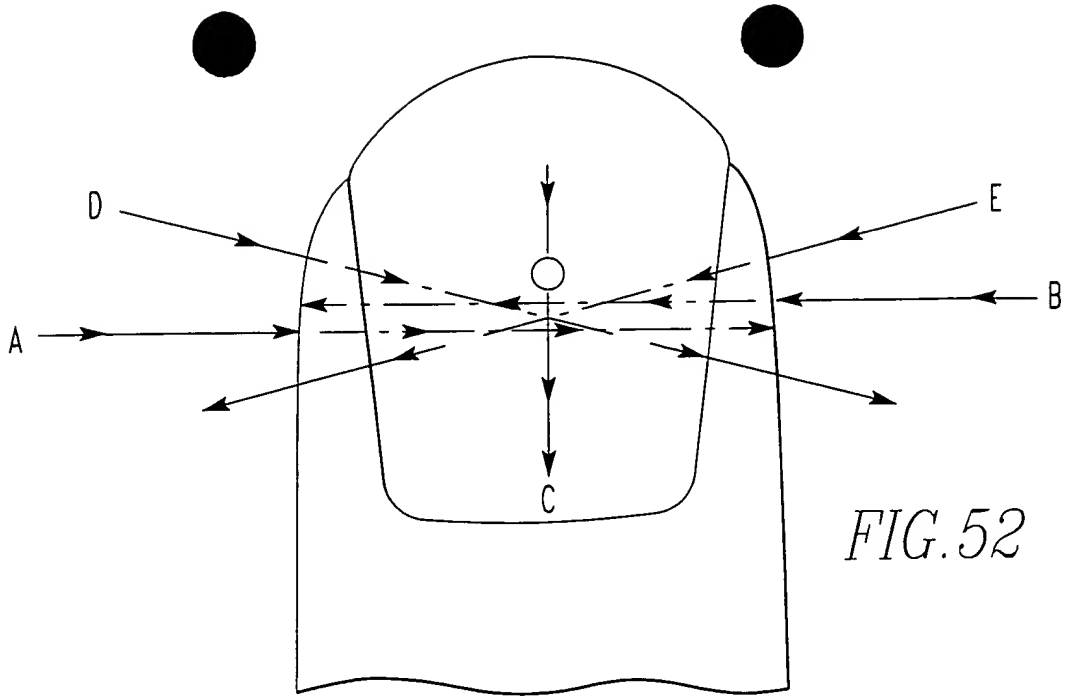


FIG.52

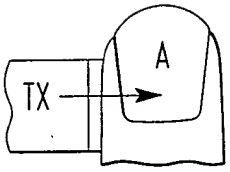


FIG.52a

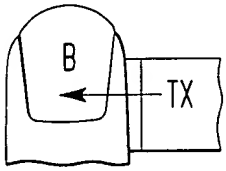


FIG.52b

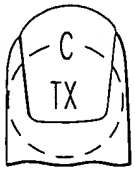


FIG.52c

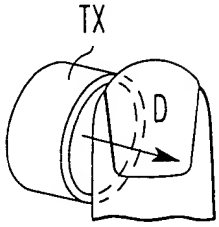


FIG.52d

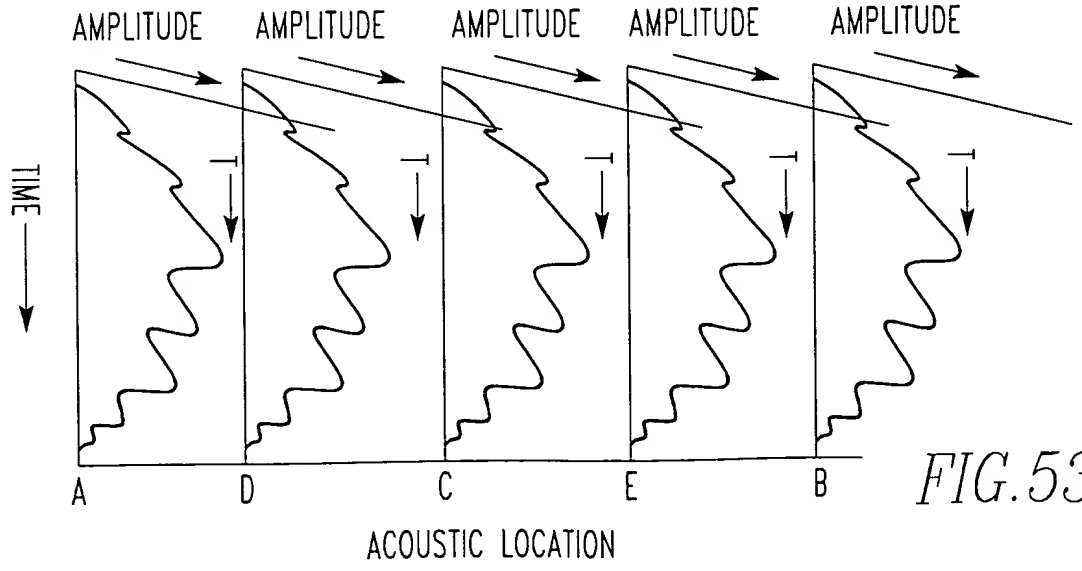


FIG.53

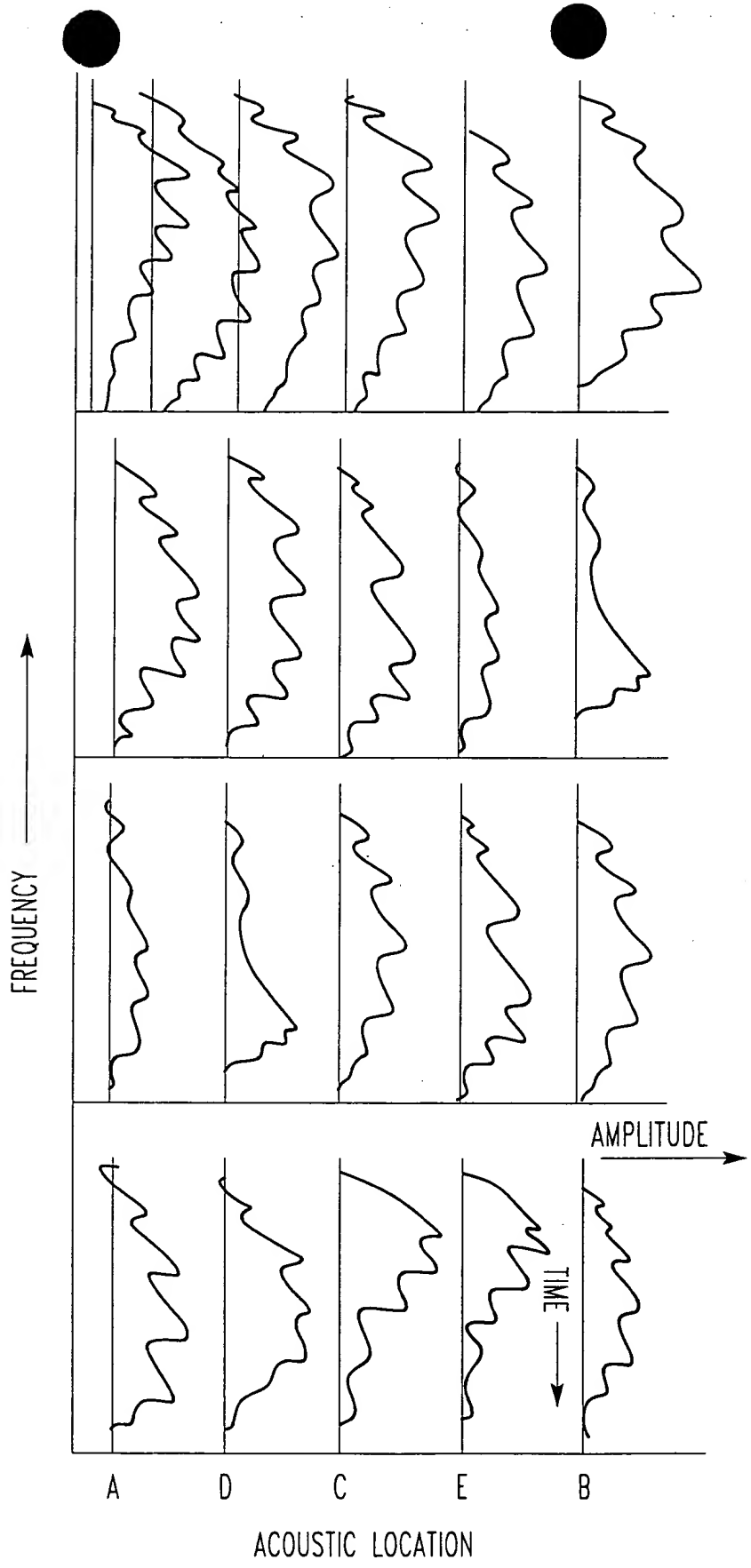


FIG.54

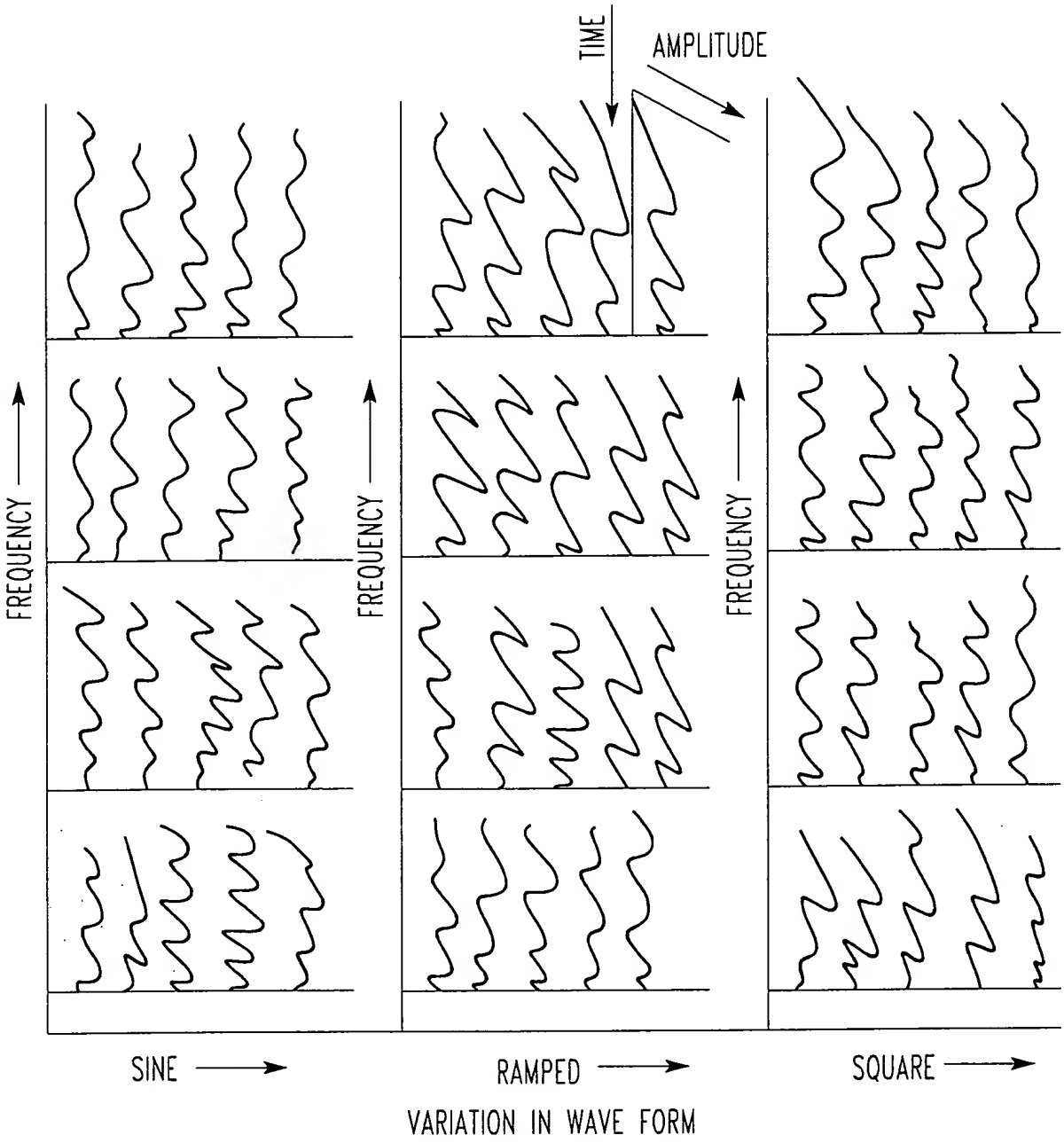

TIME
AMPLITUDE
FREQUENCY
FREQUENCY
FREQUENCY
SINE
RAMPED
SQUARE
VARIATION IN WAVE FORM

FIG.55

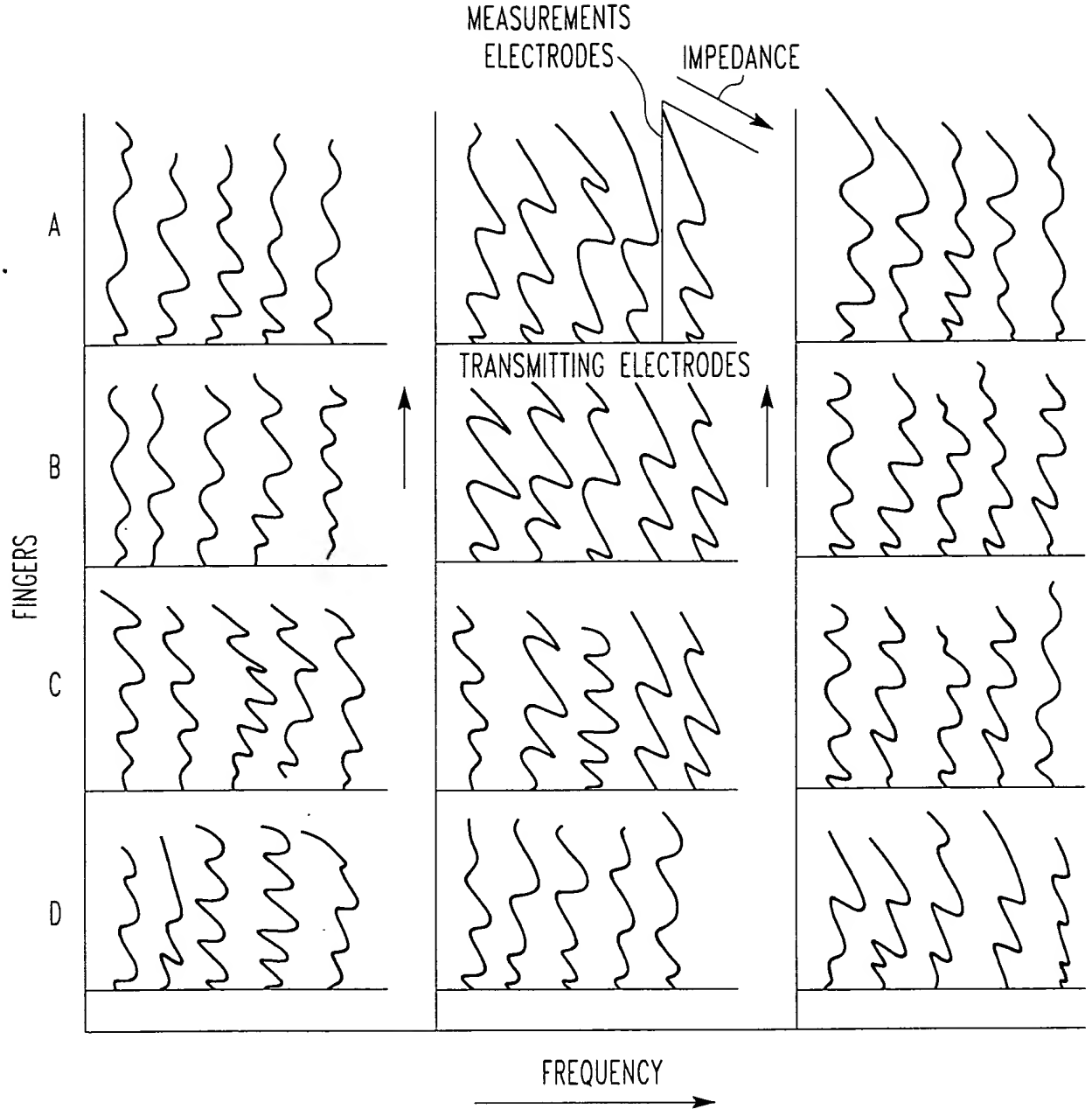

MEASUREMENTS
ELECTRODES
IMPEDANCE
A
B
C
D
FINGERS
TRANSMITTING ELECTRODES
FREQUENCY

FIG.56

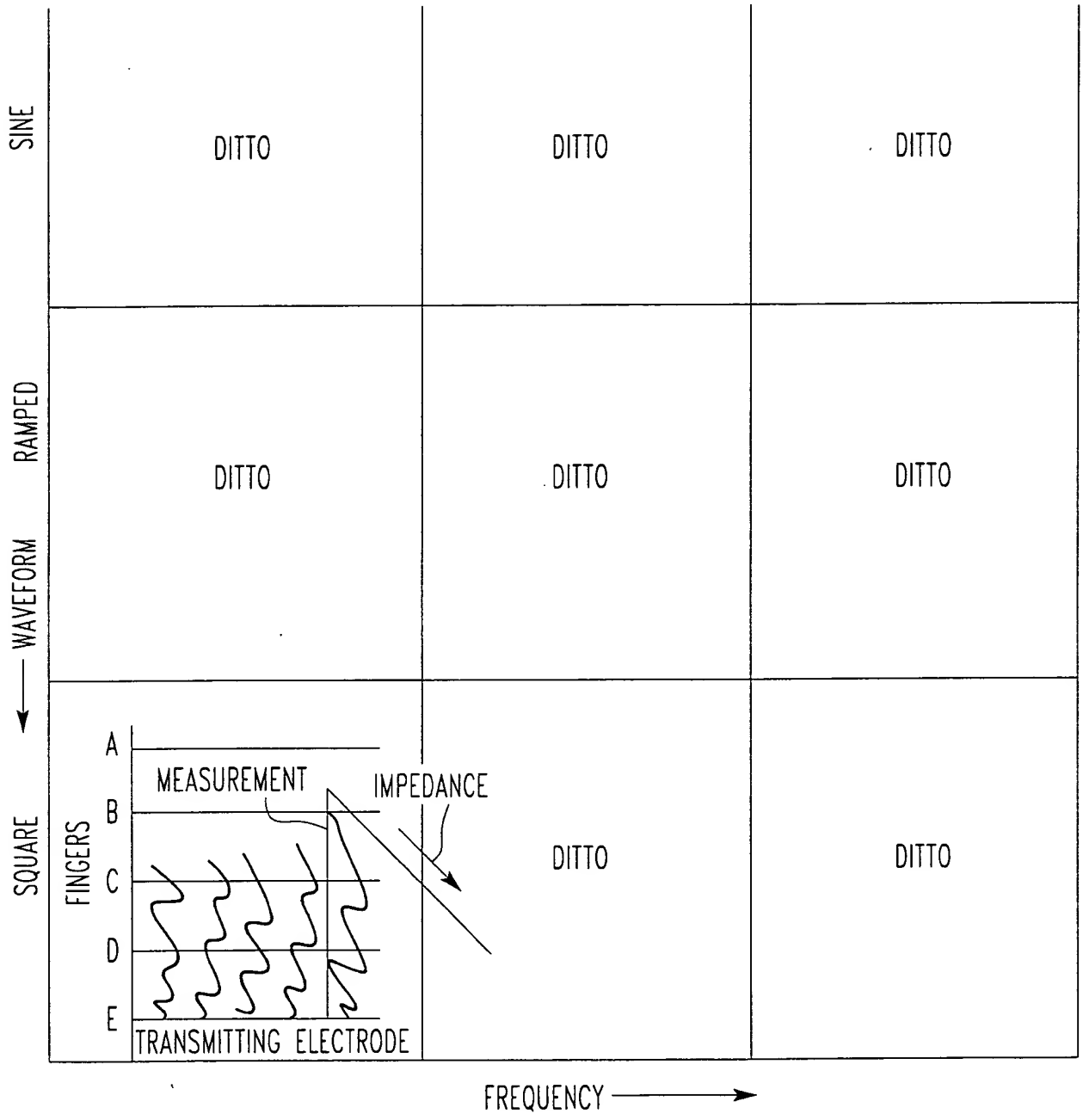

SINE
RAMPED
SQUARE
WAVEFORM
DITTO
DITTO
DITTO
DITTO
DITTO
DITTO
DITTO
DITTO
DITTO
A
B
C
D
E
FINGERS
MEASUREMENT
IMPEDANCE
TRANSMITTING ELECTRODE
FREQUENCY

FIG.57

US 5,355,150 - 10/11/1994

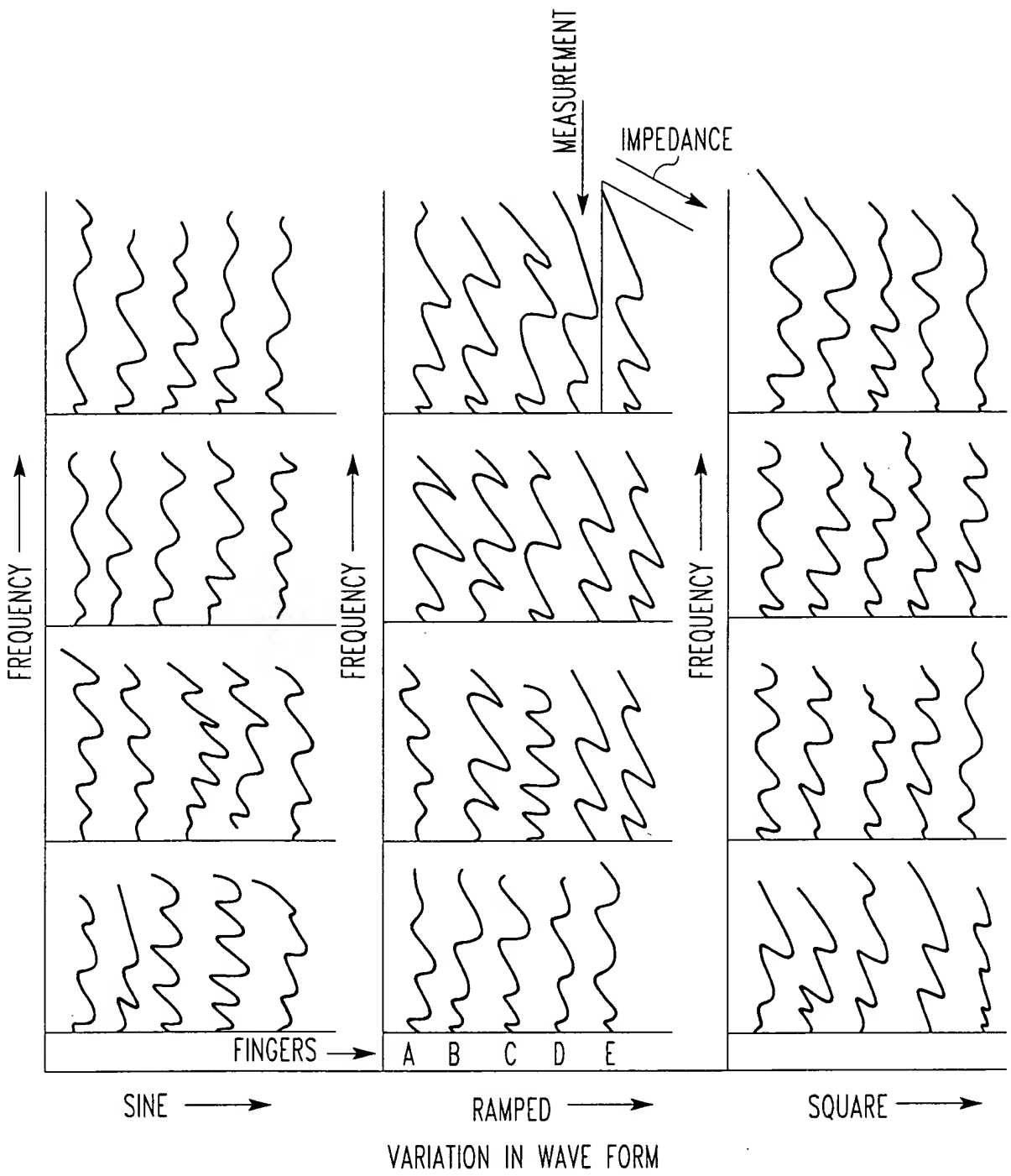


FIG.58

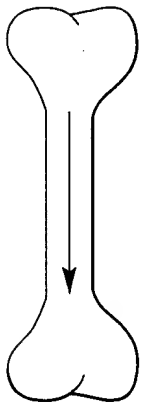


FIG.59

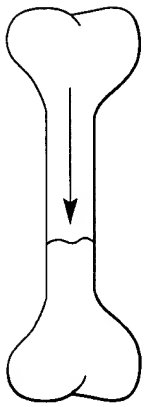


FIG.60

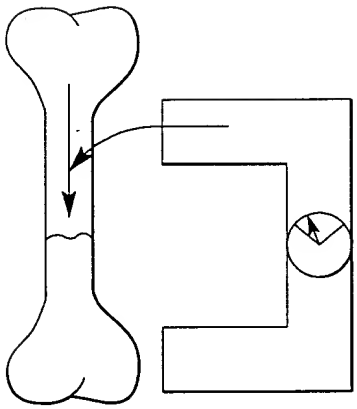


FIG.61

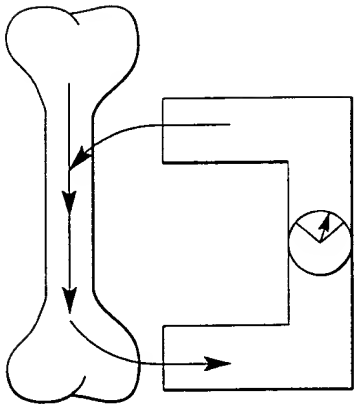


FIG.62

0596450 "0450

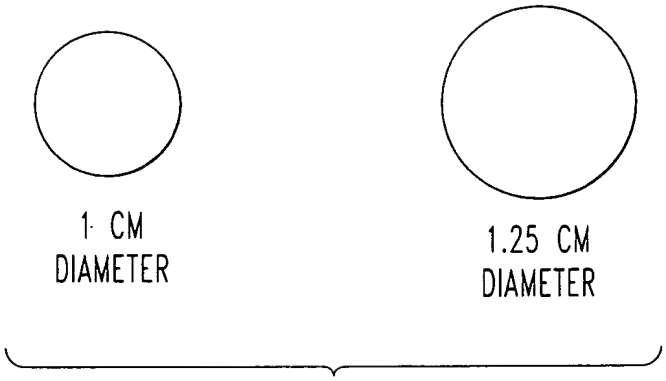

1 CM
DIAMETER
1.25 CM
DIAMETER

FIG.63

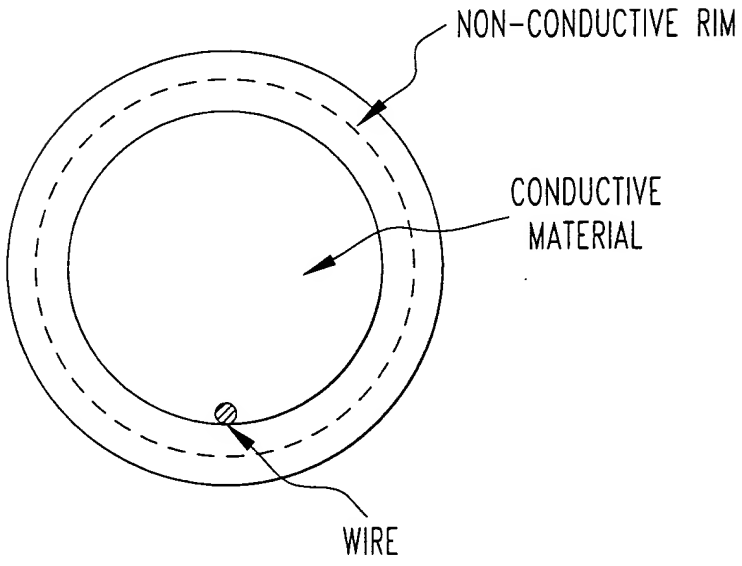
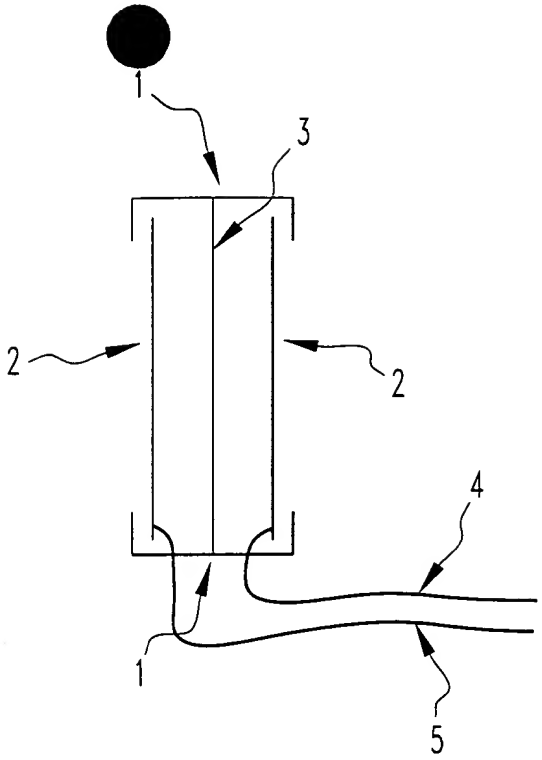

NON-CONDUCTIVE RIM
CONDUCTIVE
MATERIAL
WIRE

FIG.64



1. NON-CONDUCTIVE RIM
2. CONDUCTIVE ELECTRODE
3. NON-CONDUCTIVE DIVIDER
4. CONNECTOR TO ANALYZER
5. CONNECTOR TO GENERATOR

FIG.65

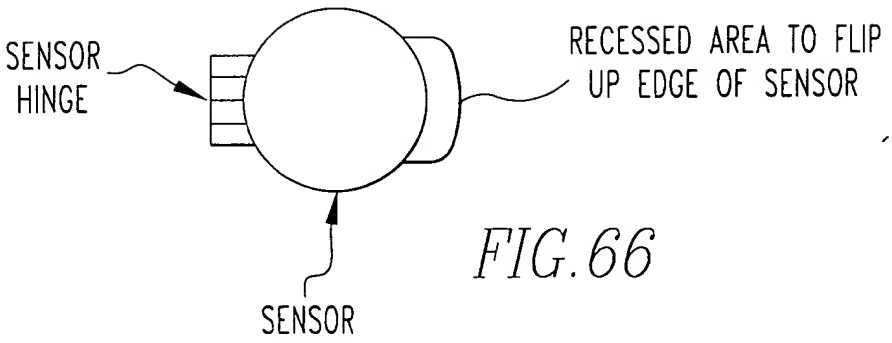


FIG.66

5,565,082 5,565,082

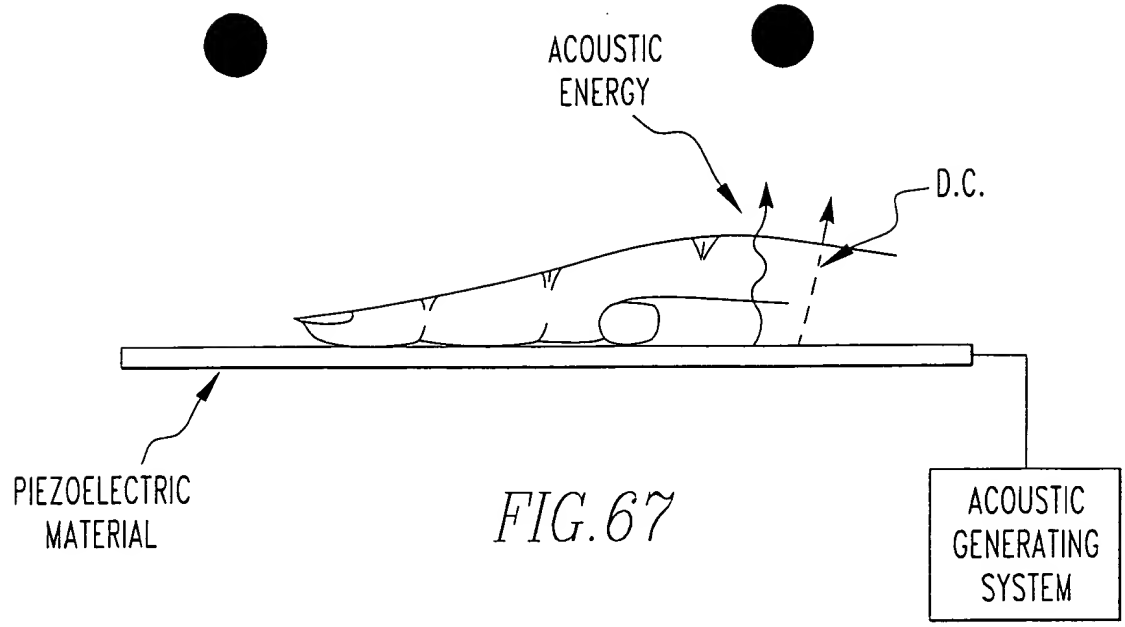

ACOUSTIC
ENERGY
D.C.
PIEZOELECTRIC
MATERIAL
ACOUSTIC
GENERATING
SYSTEM

FIG.67

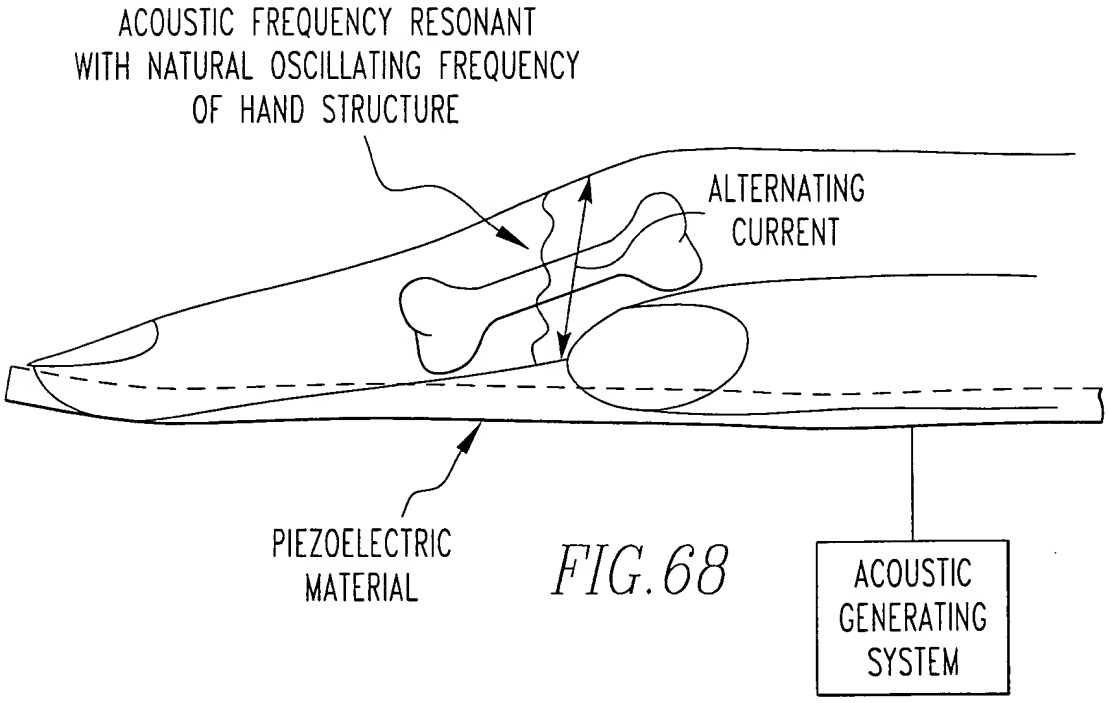

ACOUSTIC FREQUENCY RESONANT
WITH NATURAL OSCILLATING FREQUENCY
OF HAND STRUCTURE
ALTERNATING
CURRENT
PIEZOELECTRIC
MATERIAL
ACOUSTIC
GENERATING
SYSTEM

FIG.68

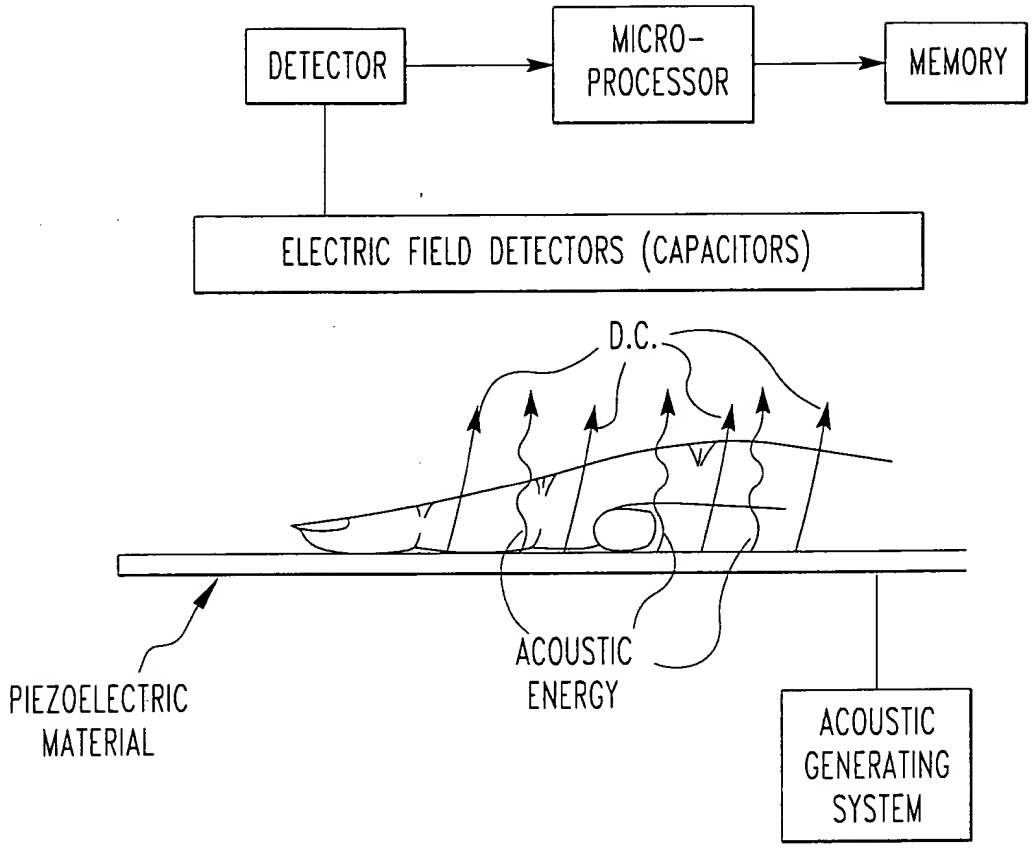

DETECTOR
MICRO-
PROCESSOR
MEMORY
ELECTRIC FIELD DETECTORS (CAPACITORS)
D.C.
PIEZOELECTRIC
MATERIAL
ACOUSTIC
ENERGY
ACOUSTIC
GENERATING
SYSTEM

FIG. 69

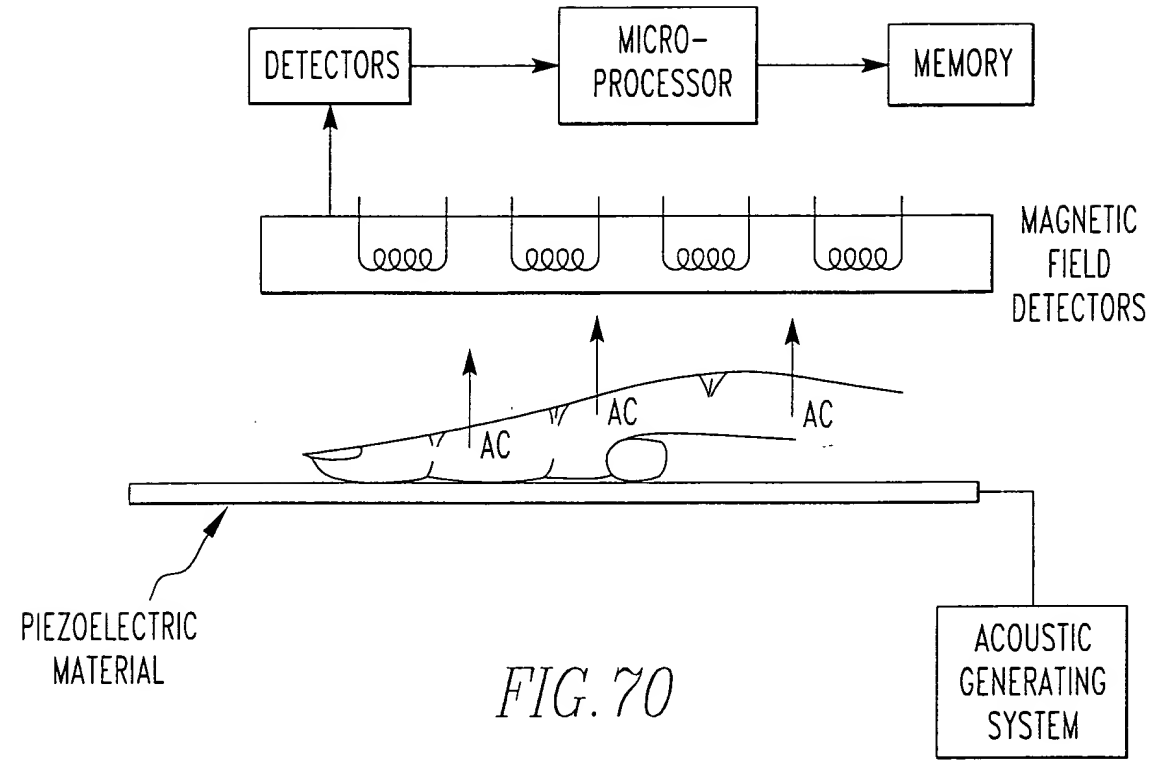

DETECTORS
MICRO-
PROCESSOR
MEMORY
MAGNETIC
FIELD
DETECTORS
AC
AC
AC
PIEZOELECTRIC
MATERIAL
ACOUSTIC
GENERATING
SYSTEM

FIG. 70

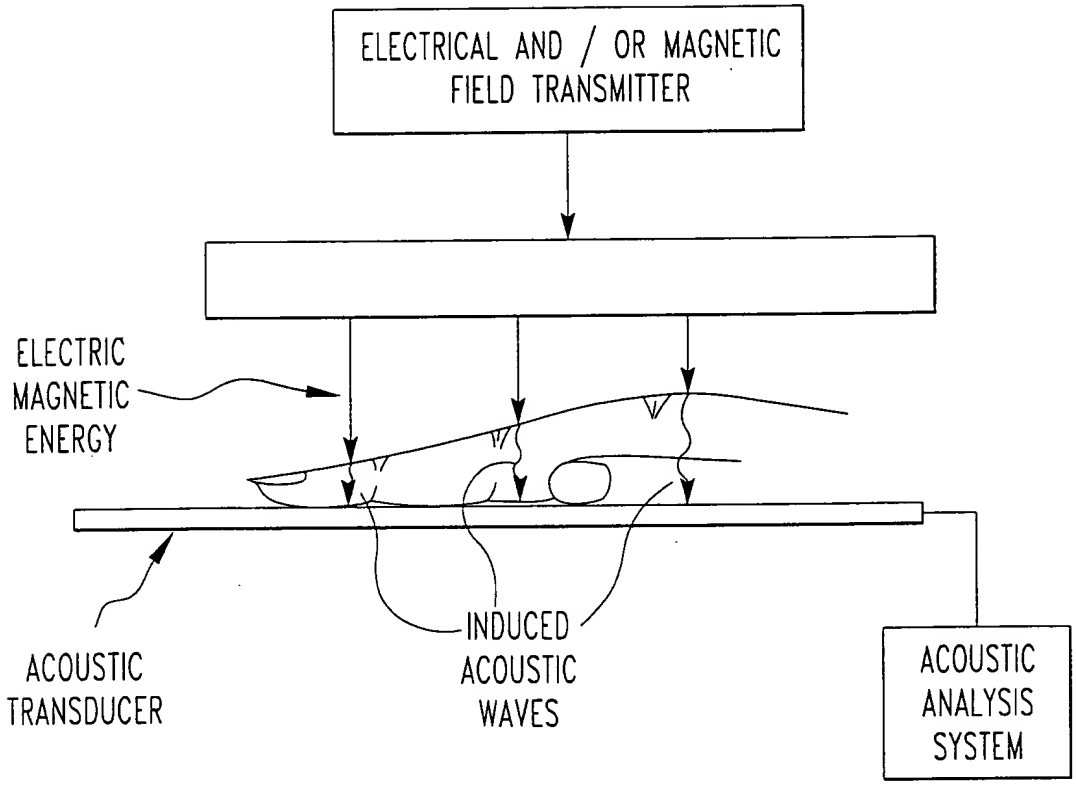
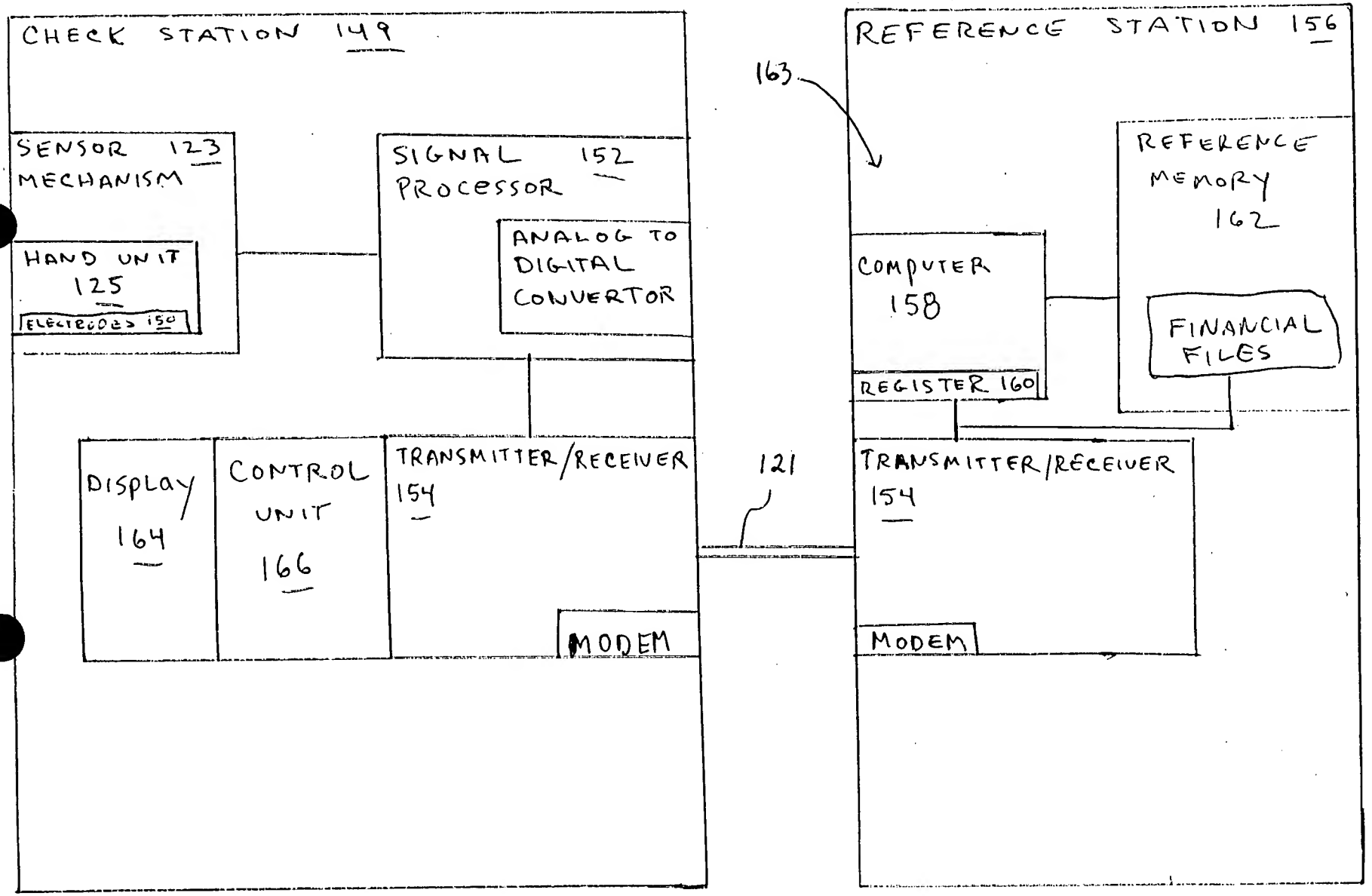

ELECTRICAL AND / OR MAGNETIC FIELD TRANSMITTER
ELECTRIC MAGNETIC ENERGY
ACOUSTIC TRANSDUCER
INDUCED ACOUSTIC WAVES
ACOUSTIC ANALYSIS SYSTEM

FIG. 71

FIG 72



0936112.091509

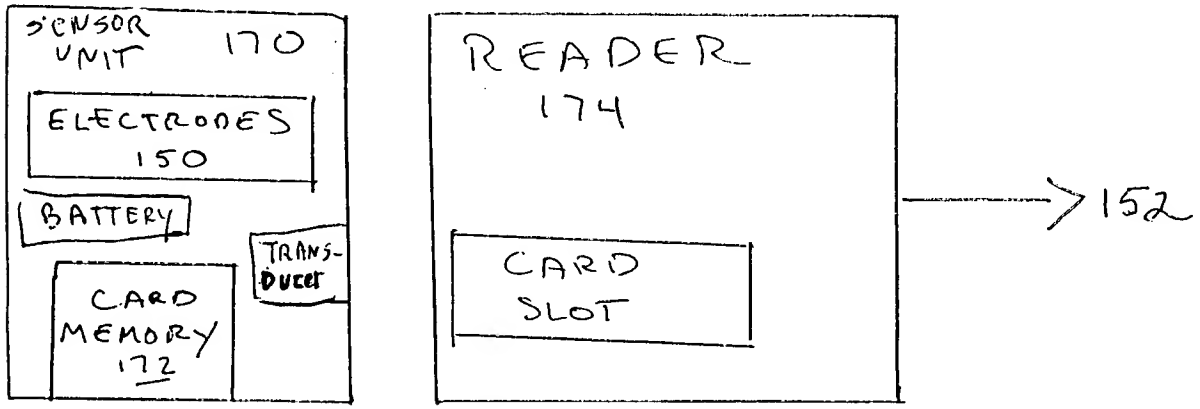
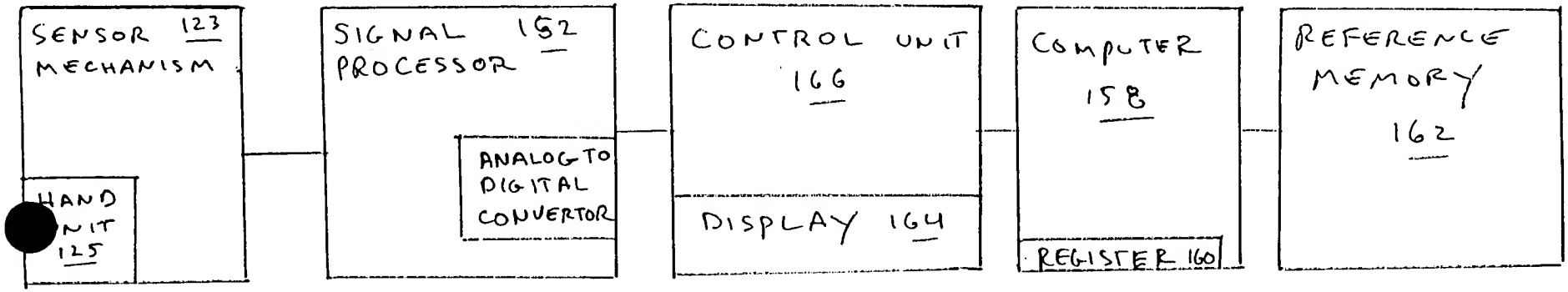

SENSOR UNIT 170
ELECTRODES 150
BATTERY
TRANS-DUCER
CARD MEMORY 172
READER 174
CARD SLOT
152

FIG 73

FIG 74



0936112 .091590

Smart Card Acoustic Schematics

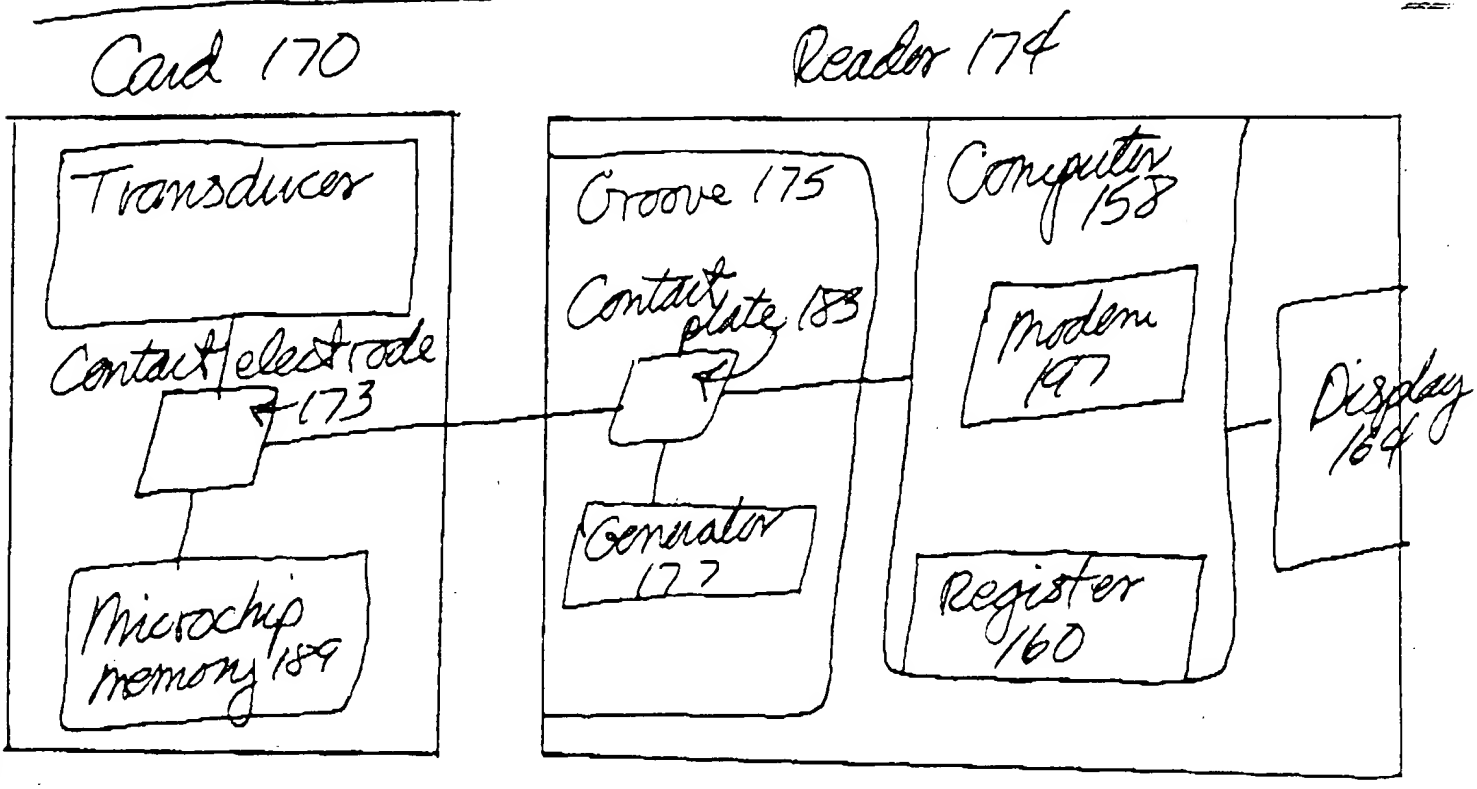


FIG 74a

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Acoustic Smart Card

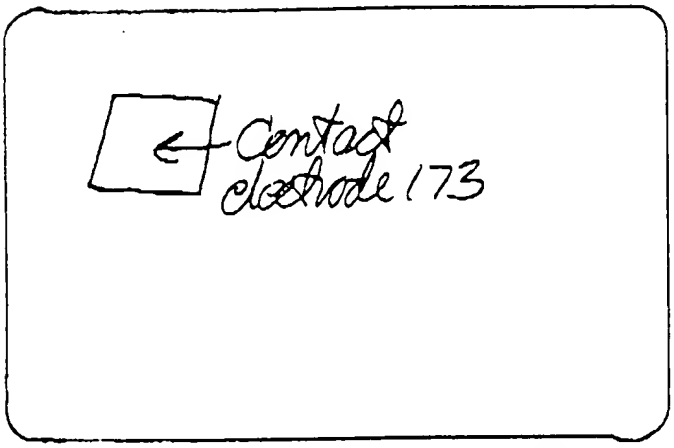


FIG 75a

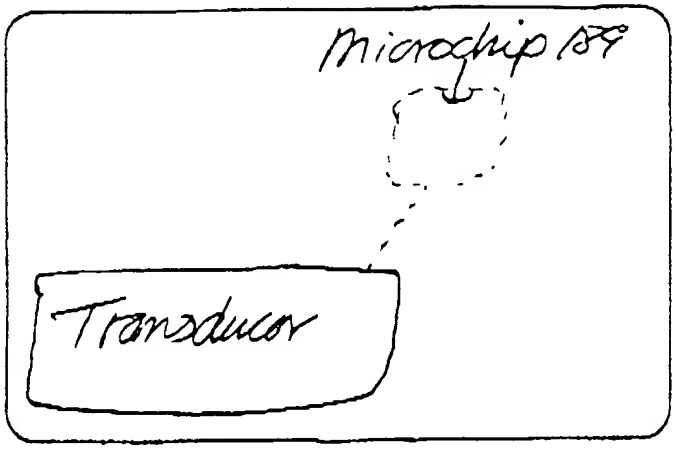


FIG 75b

0000000000000000

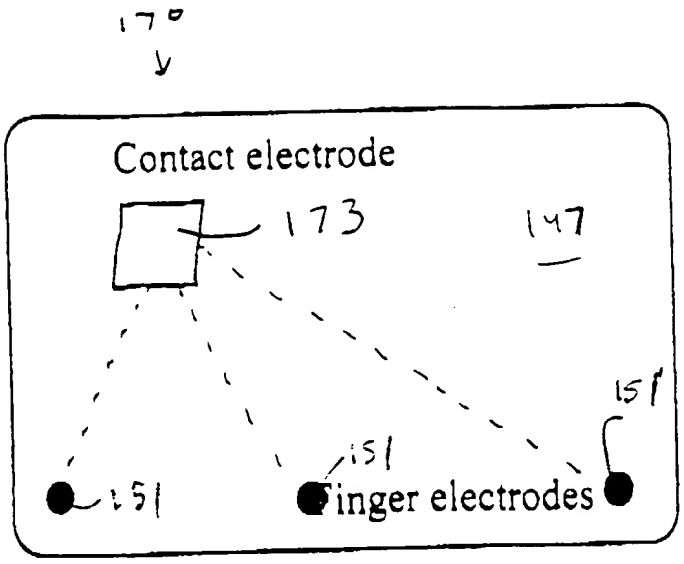


FIG 75

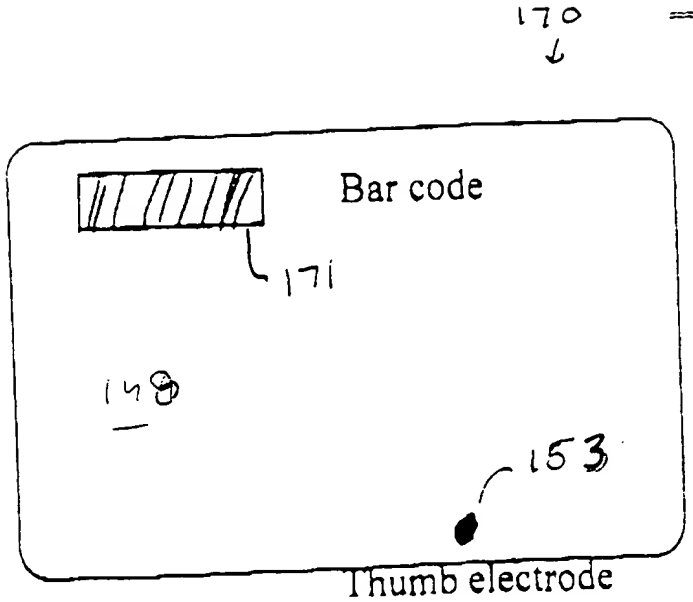


FIG 76

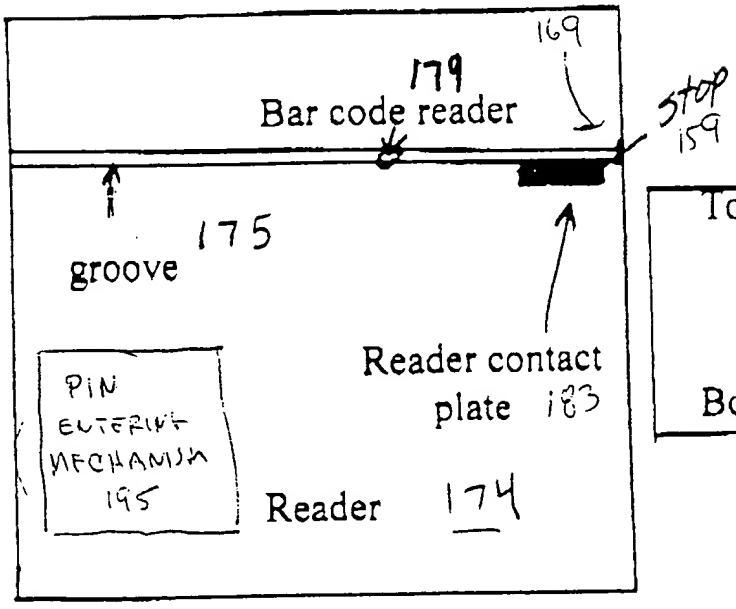


FIG 77

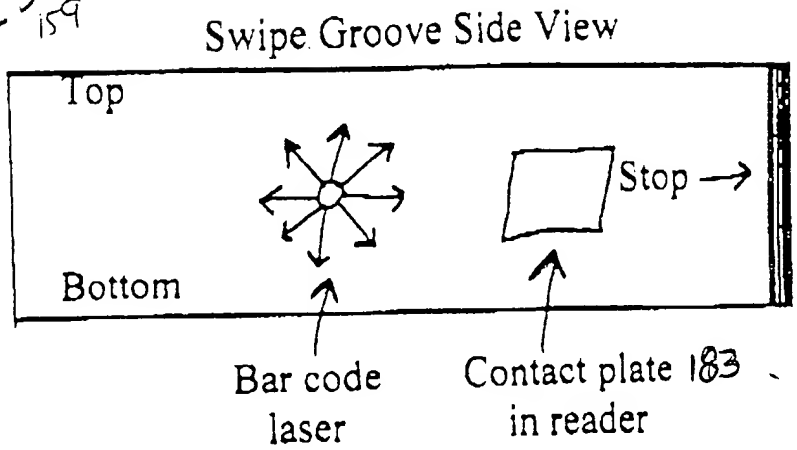


FIG 78

Acoustic Schematics

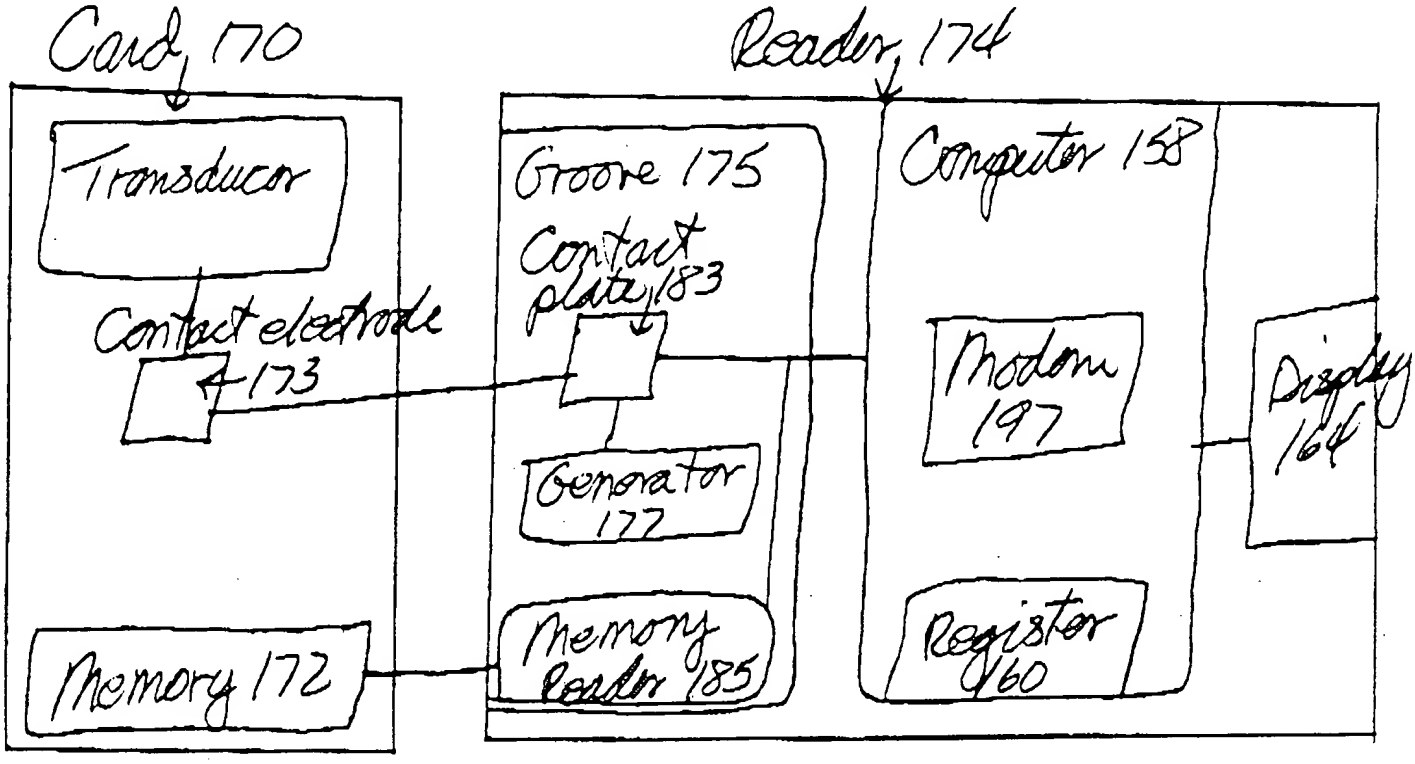
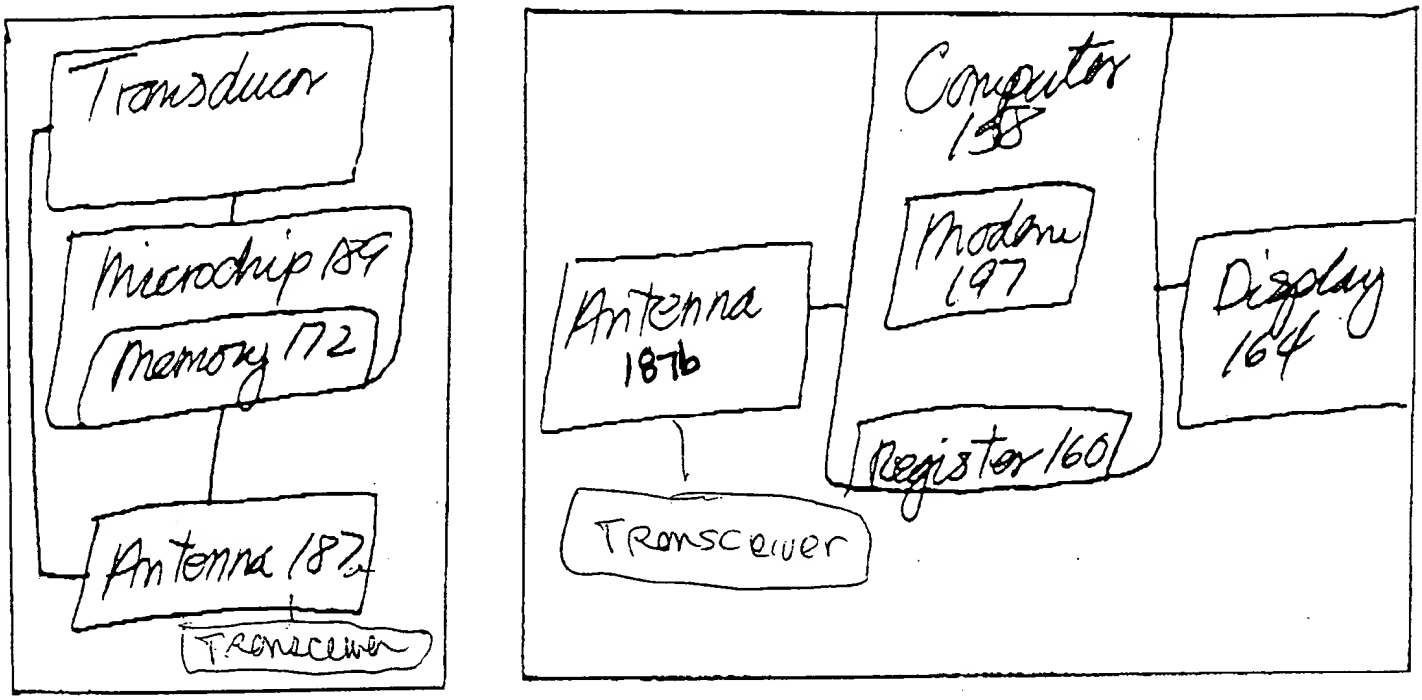


FIG 77a

Contactless Acoustic Smart Card Schematic



T

170

Fig 7a

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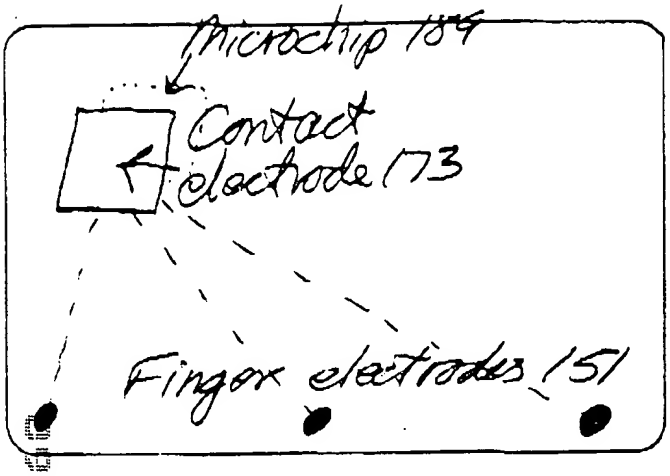
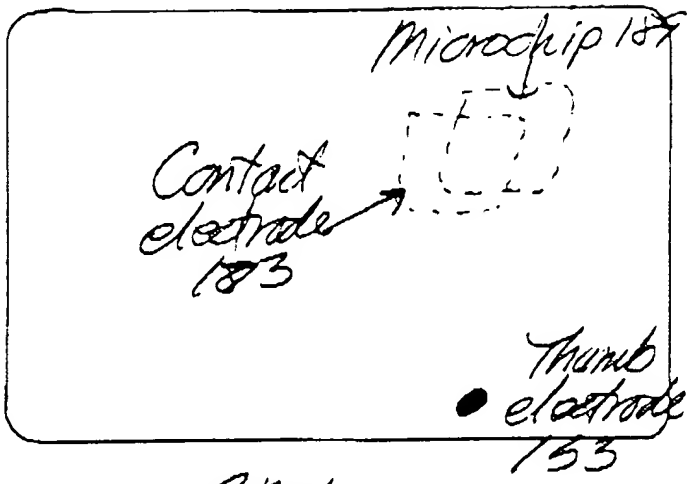
Electrode Smart Card



FRONT

FIG. 79a



BACK

FIG. 79b

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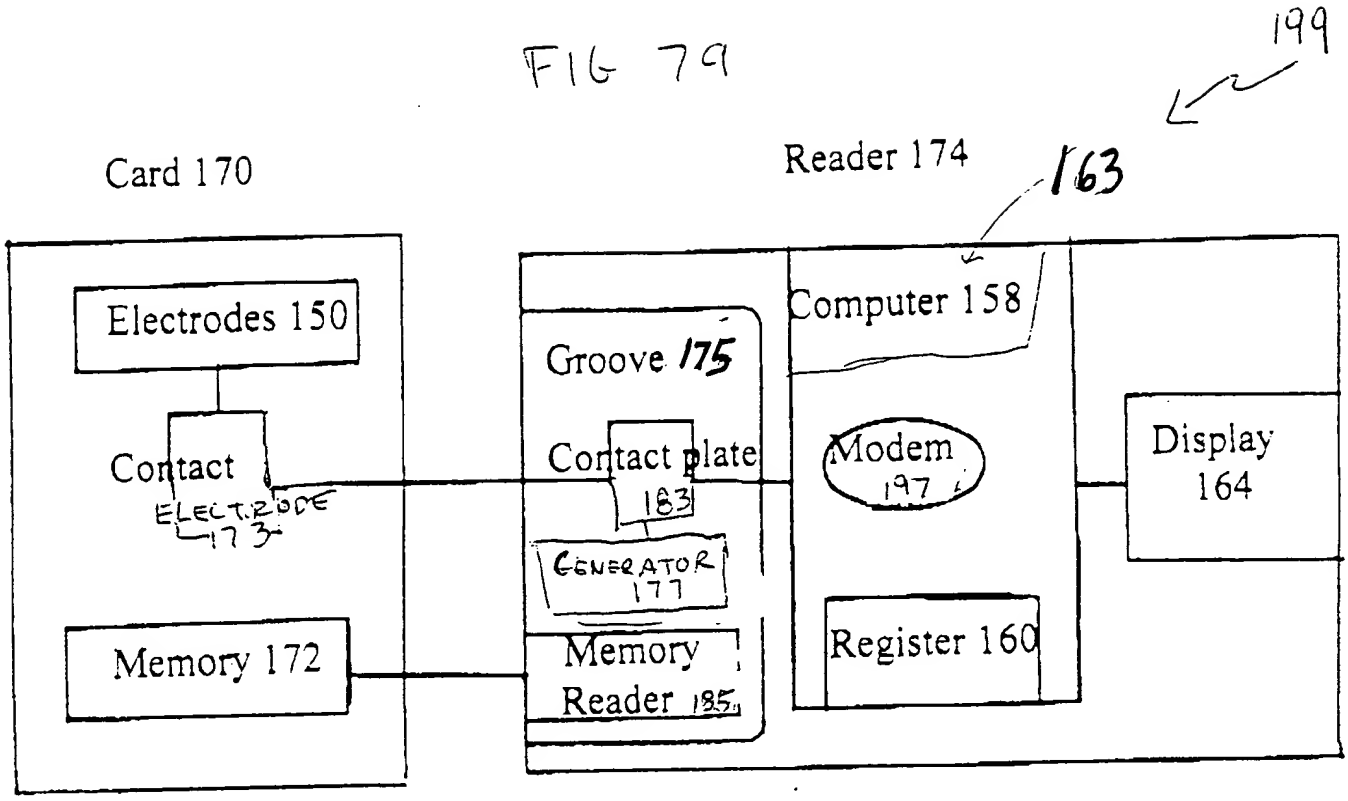
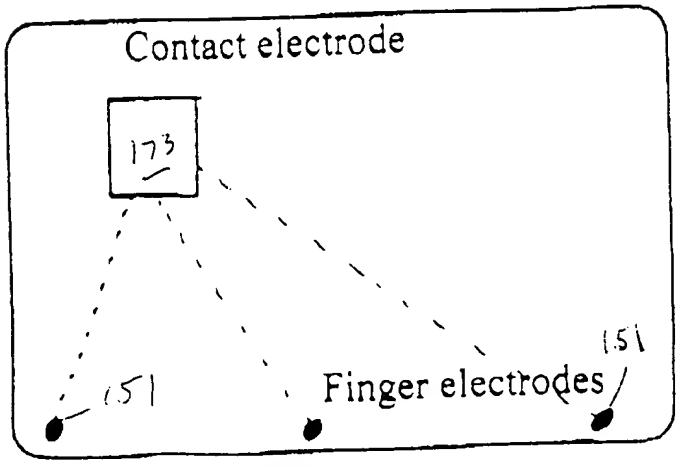
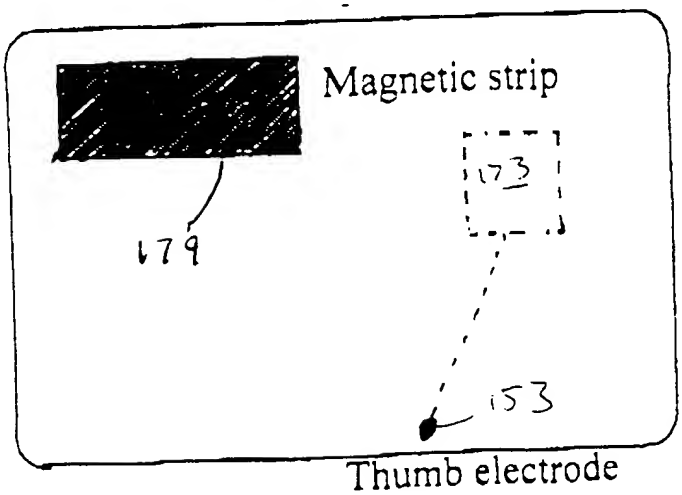
FIG 79





FRONT

FIG 80



BACK

FIG 81

FIG 82

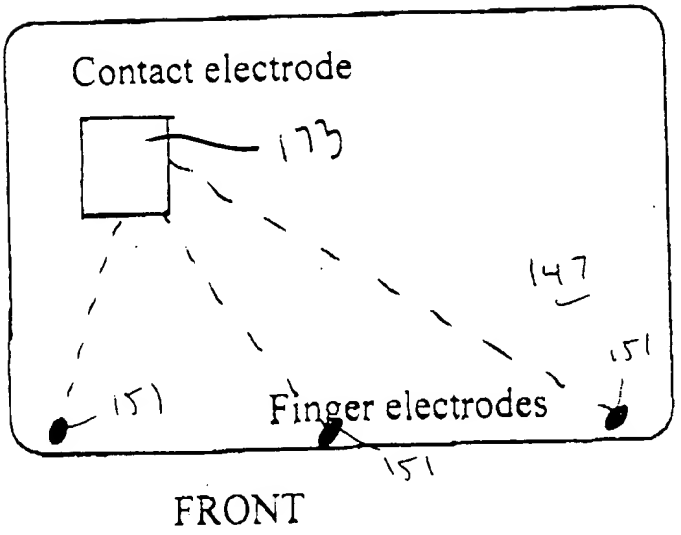


FIG 83

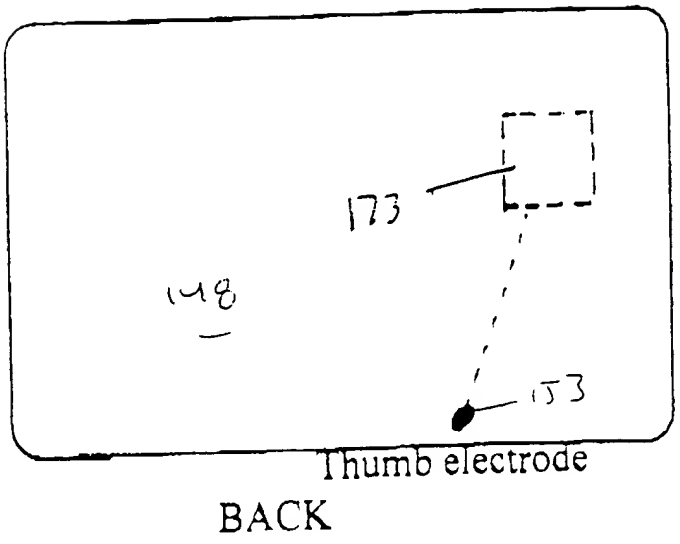


FIG 84

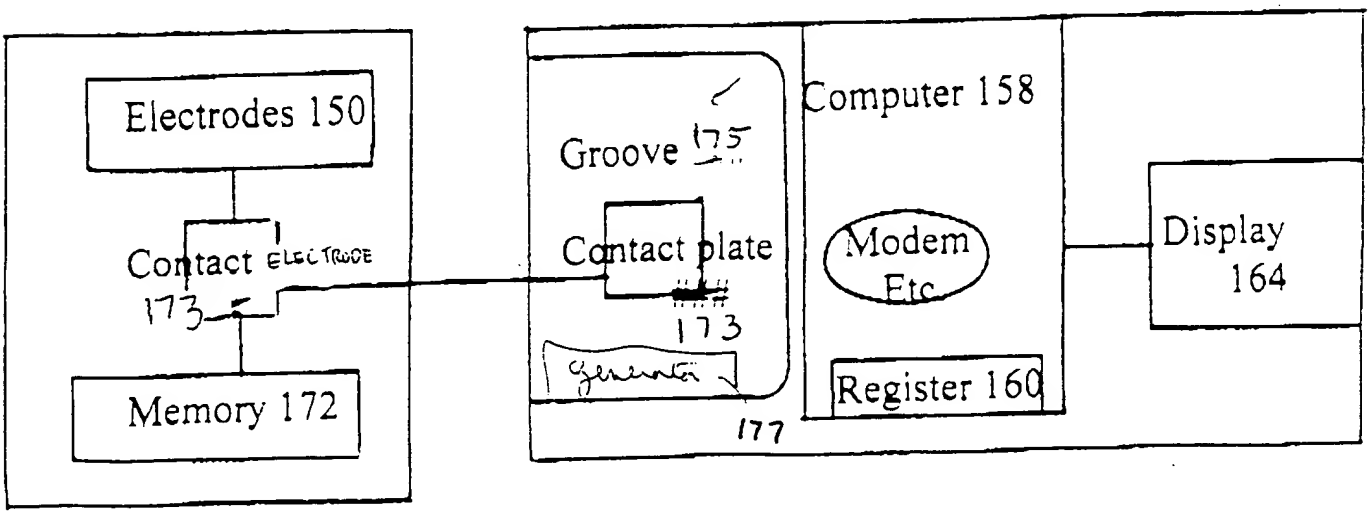
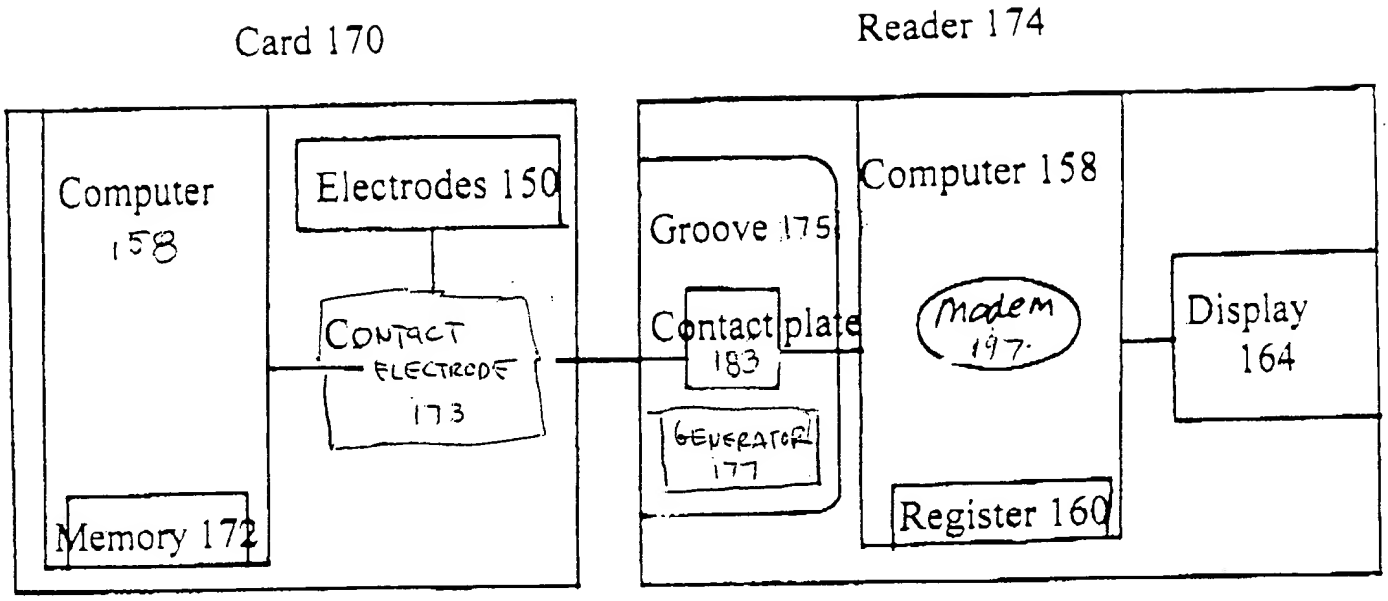
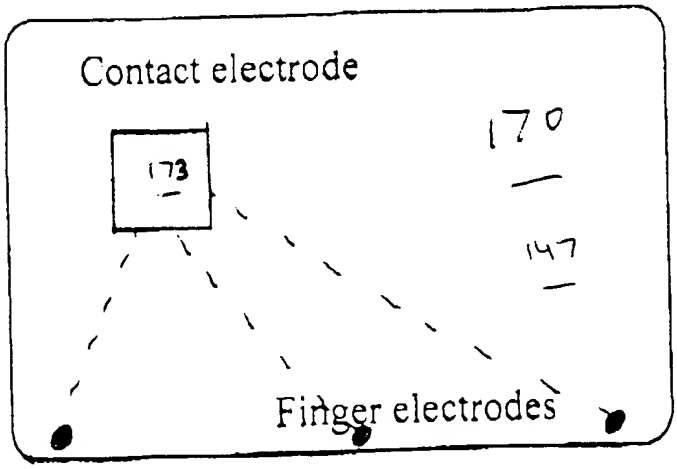


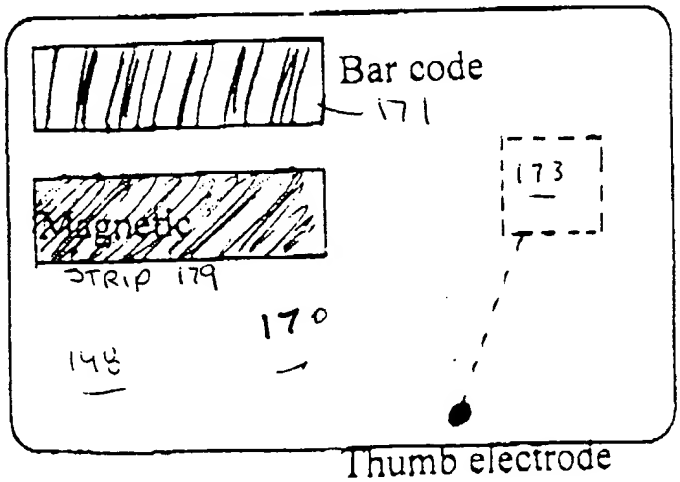
FIG 85





FRONT

FIG 86



BACK

FIG 87

FIG 88

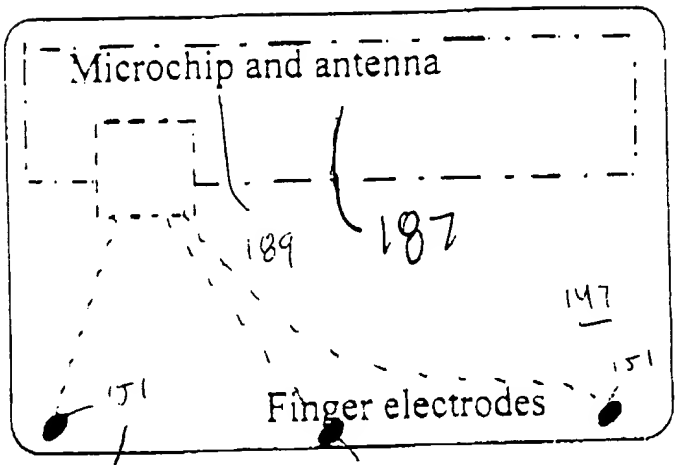


FIG 89

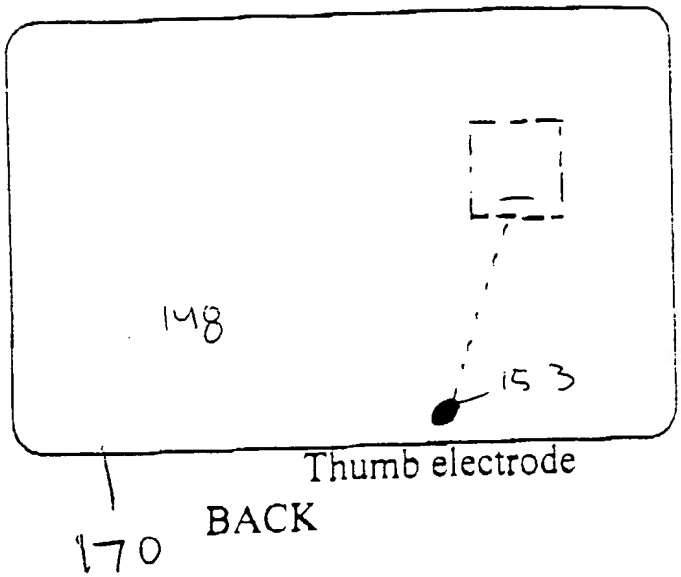
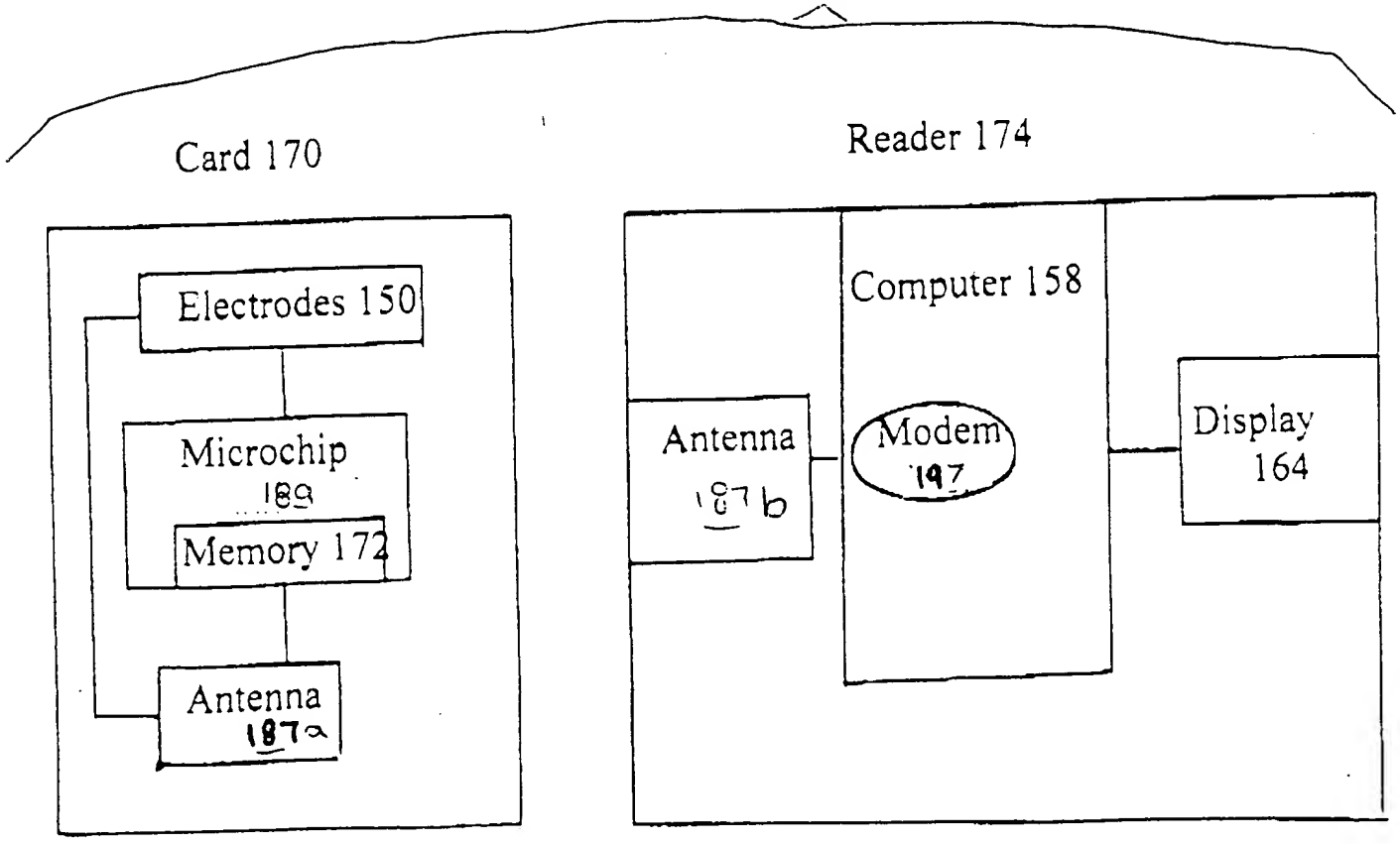


FIG 90



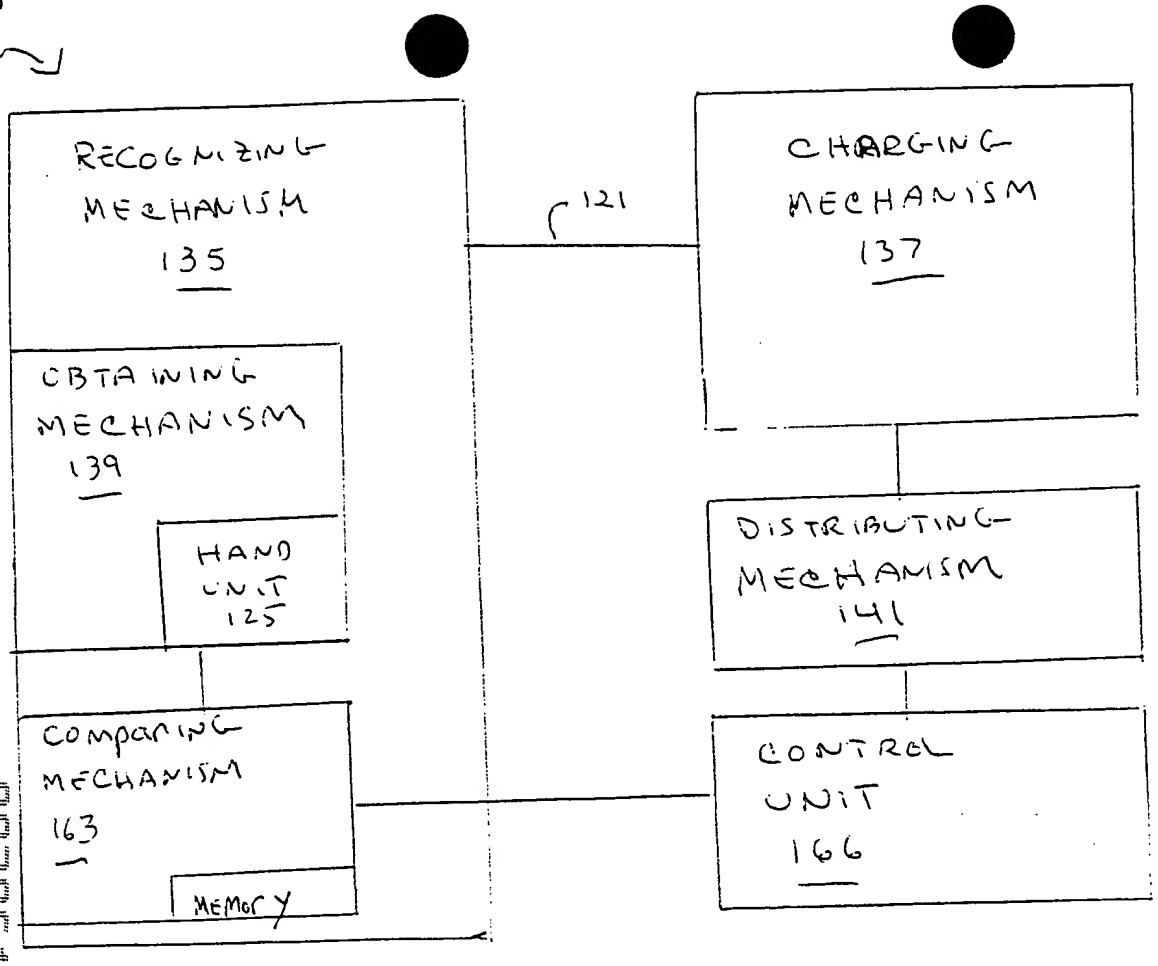

133
RECOGNIZING MECHANISM 135
121
CHARGING MECHANISM 137
OBTAINING MECHANISM 139
HAND UNIT 125
DISTRIBUTING MECHANISM 141
COMPARING MECHANISM 163
MEMORY
CONTROL UNIT 166

FIG 9|

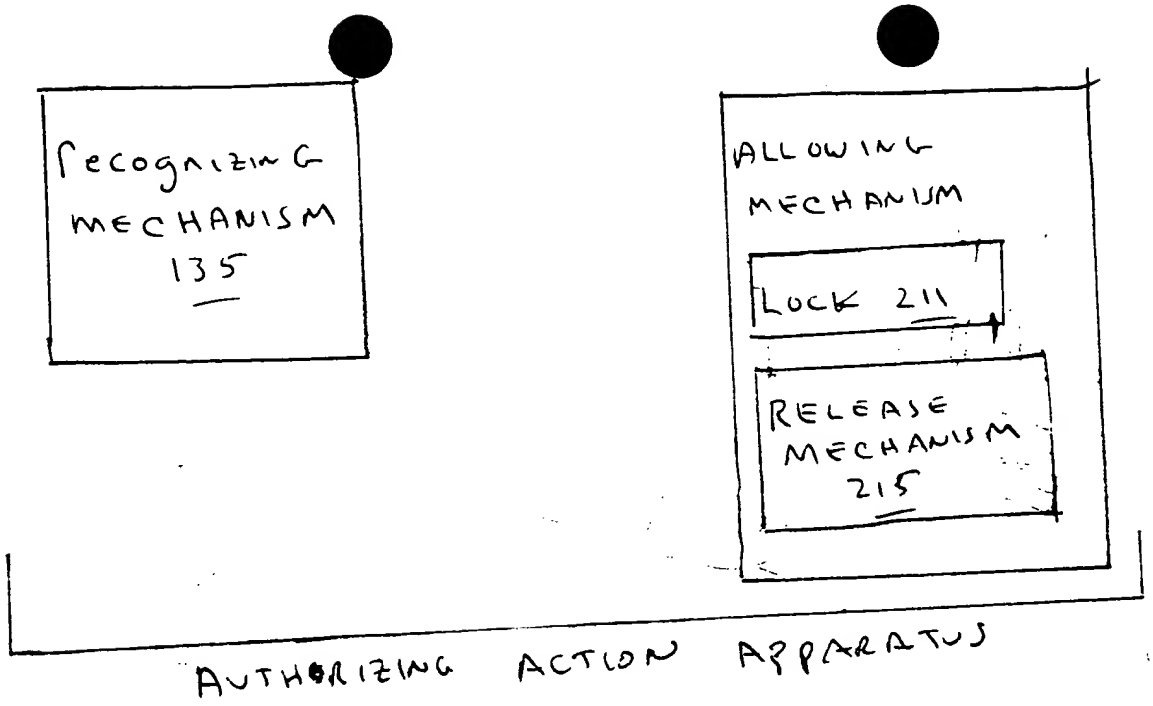

Recognizing
MECHANISM
135
ALLOWING
MECHANISM
LOCK 211
RELEASE
MECHANISM
215
AUTHORIZING ACTION APPARATUS

FIG 92

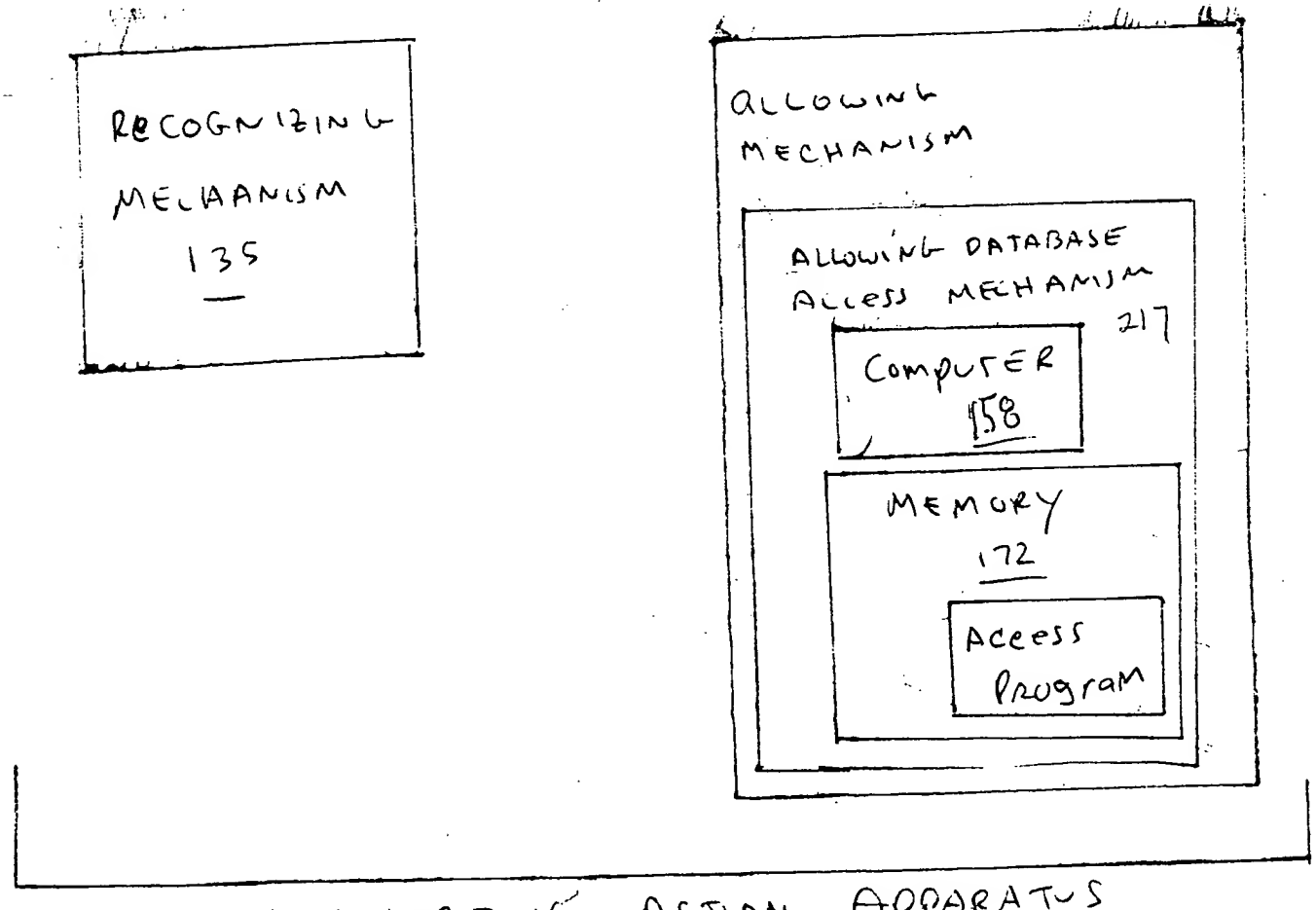

RECOGNIZING
MECHANISM
135
ALLOWING
MECHANISM
ALLOWING DATABASE
ACCESS MECHANISM
217
COMPUTER
158
MEMORY
172
Access
Program
AUTHORIZING ACTION APPARATUS

FIG 93

Authorizing Action Schematic

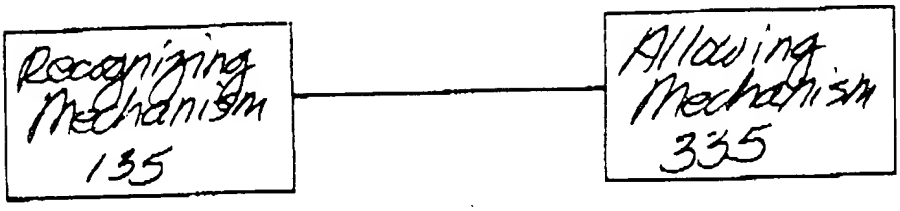


FIG 92a

9,554,160 - 05/24/05

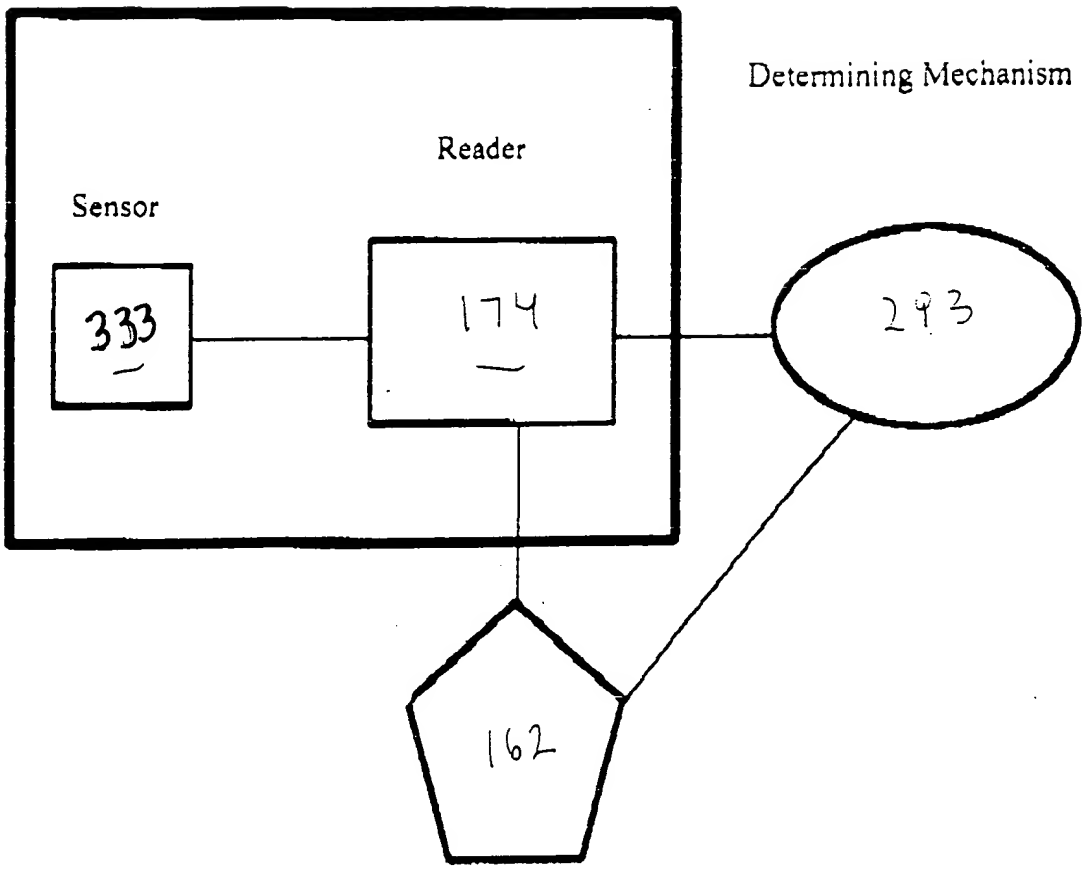

Determining Mechanism
Reader
Sensor
333
174
293
162
Known Pattern Memory

FIG 94

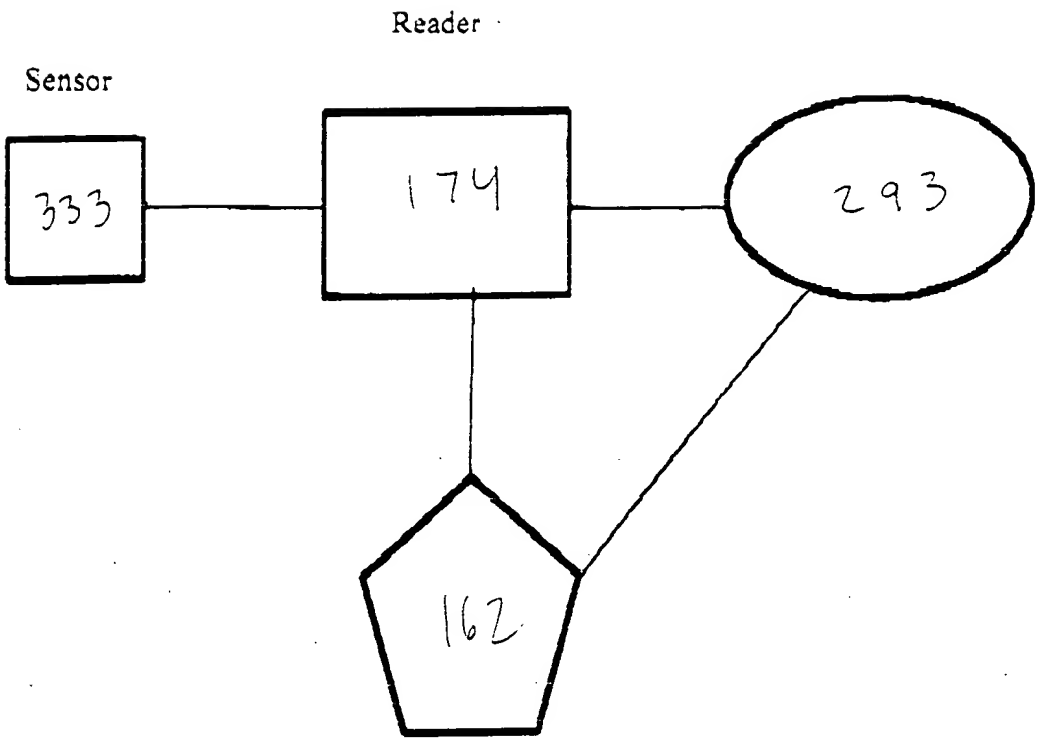

Determining Mechanism
Reader
Sensor
333
174
293
162
Known Pattern Memory

FIG 95

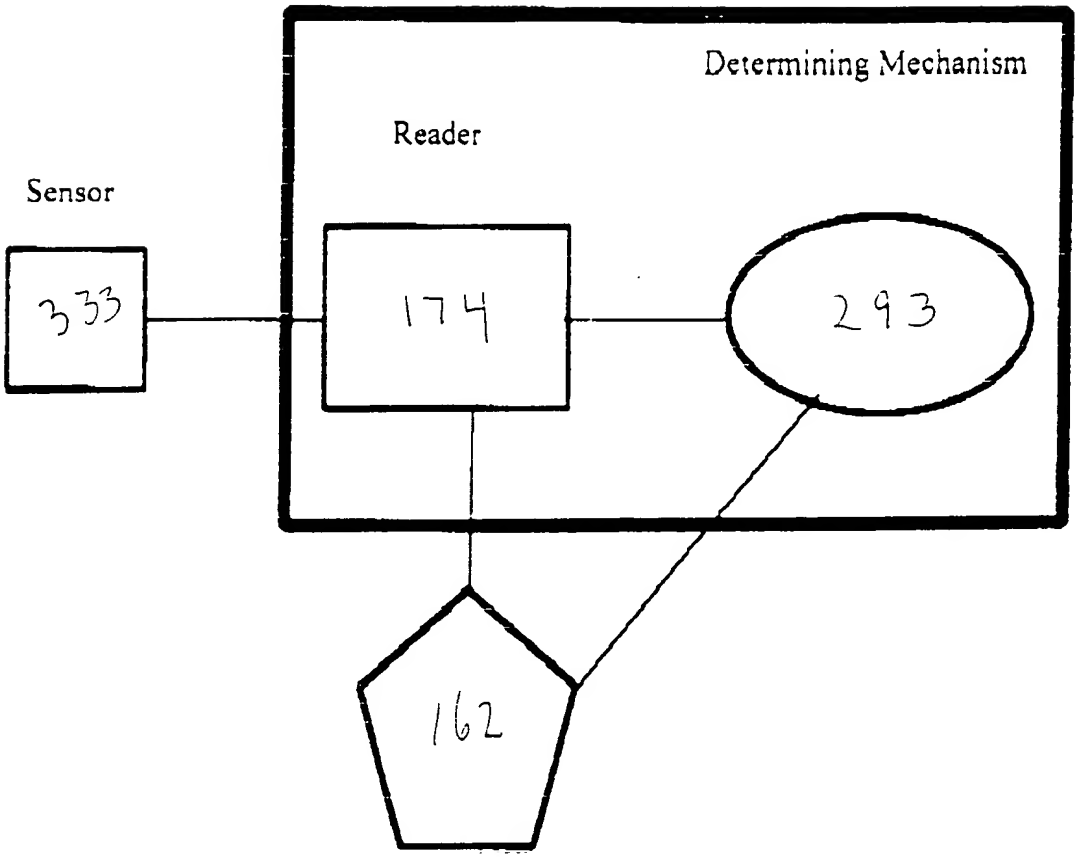


FIG 96

09954140 - 050405

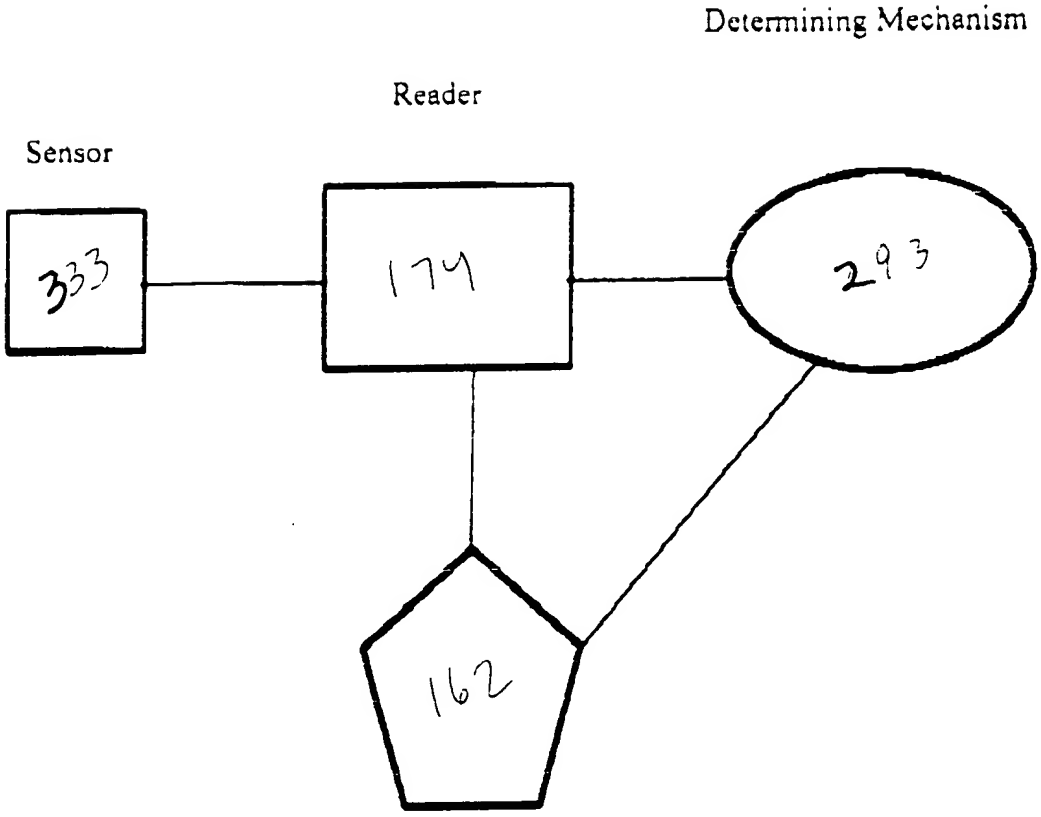

Determining Mechanism
Reader
Sensor
333
174
293
162
Known Pattern Memory

FIG 97

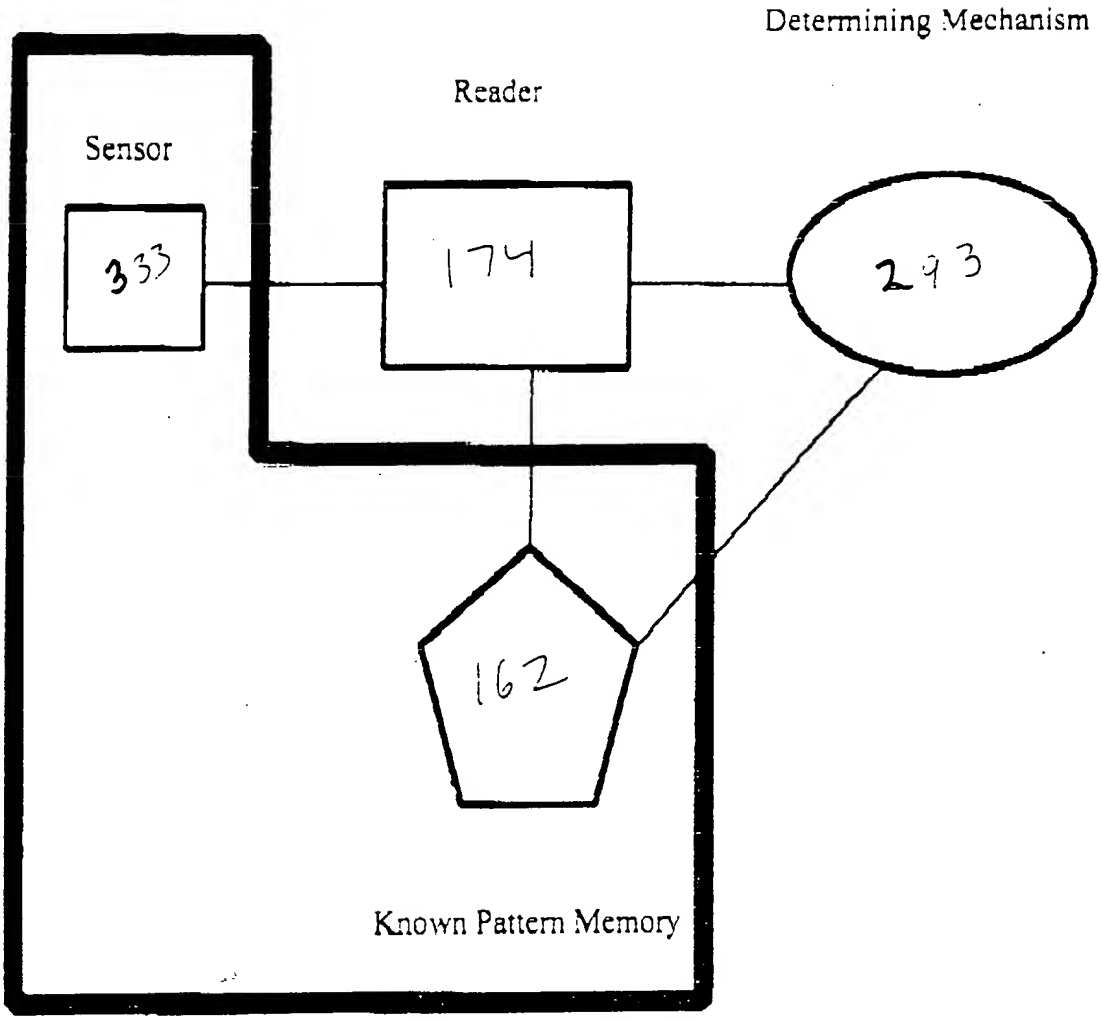

Determining Mechanism
Reader
Sensor
333
174
293
162
Known Pattern Memory

FIG 98

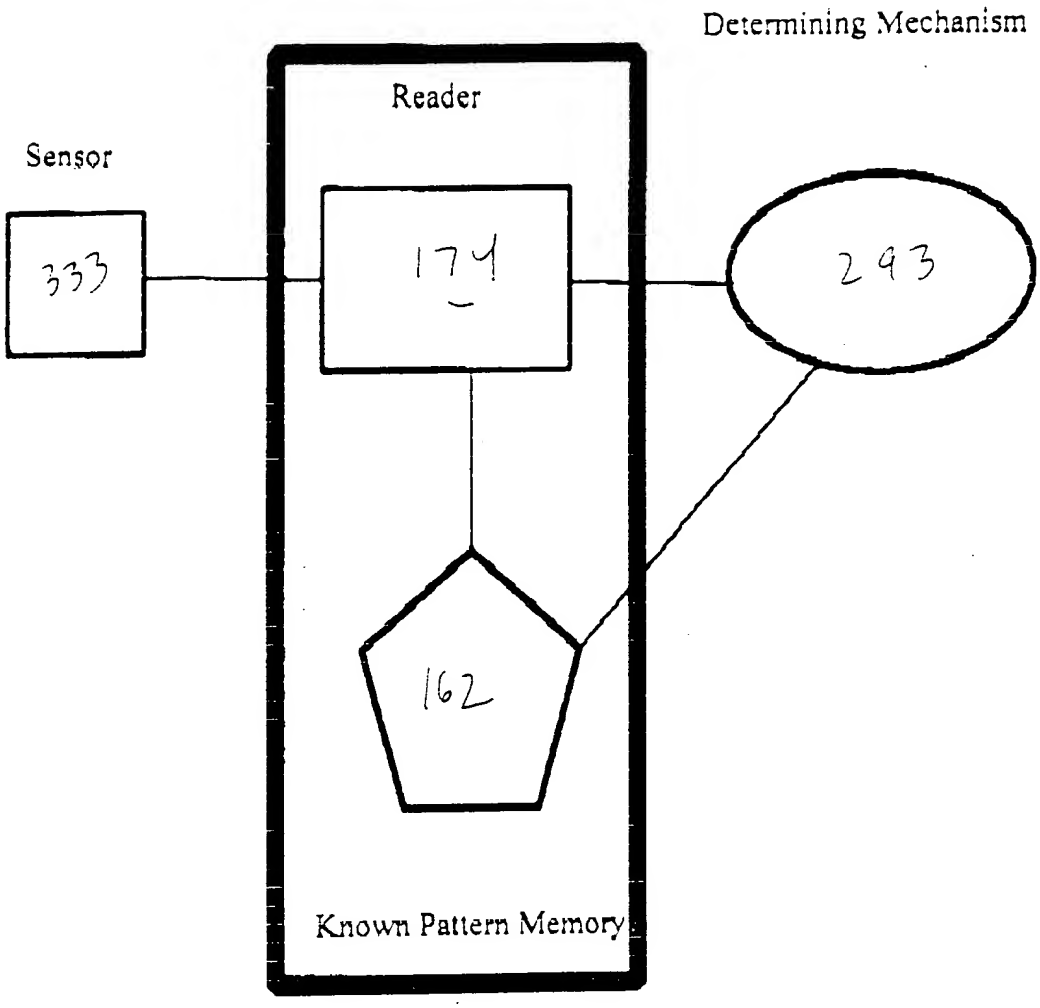

Determining Mechanism
Reader
Sensor
333
174
293
162
Known Pattern Memory

FIG 99

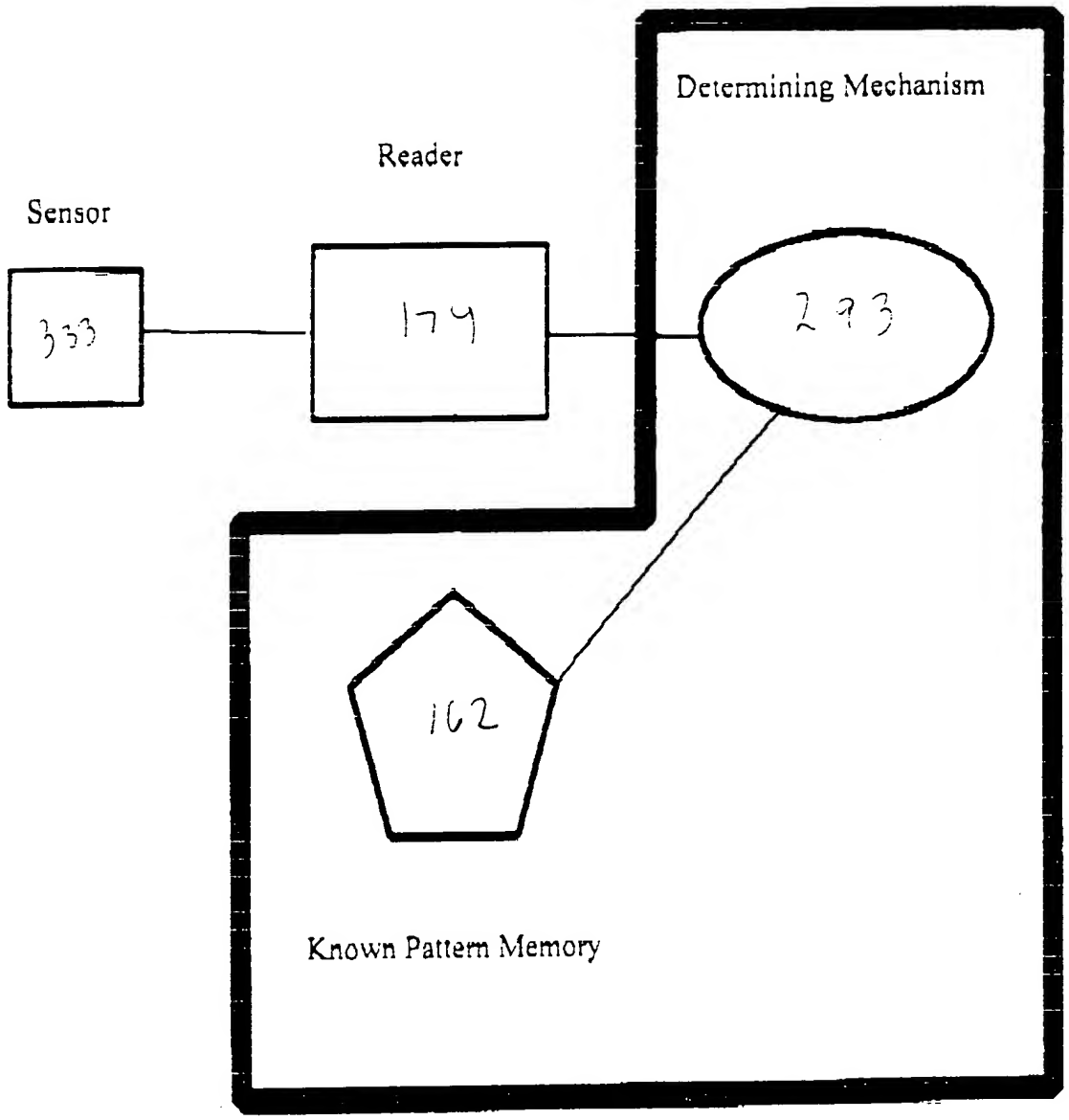

Determining Mechanism
Reader
Sensor
333
174
293
162
Known Pattern Memory

FIG 100

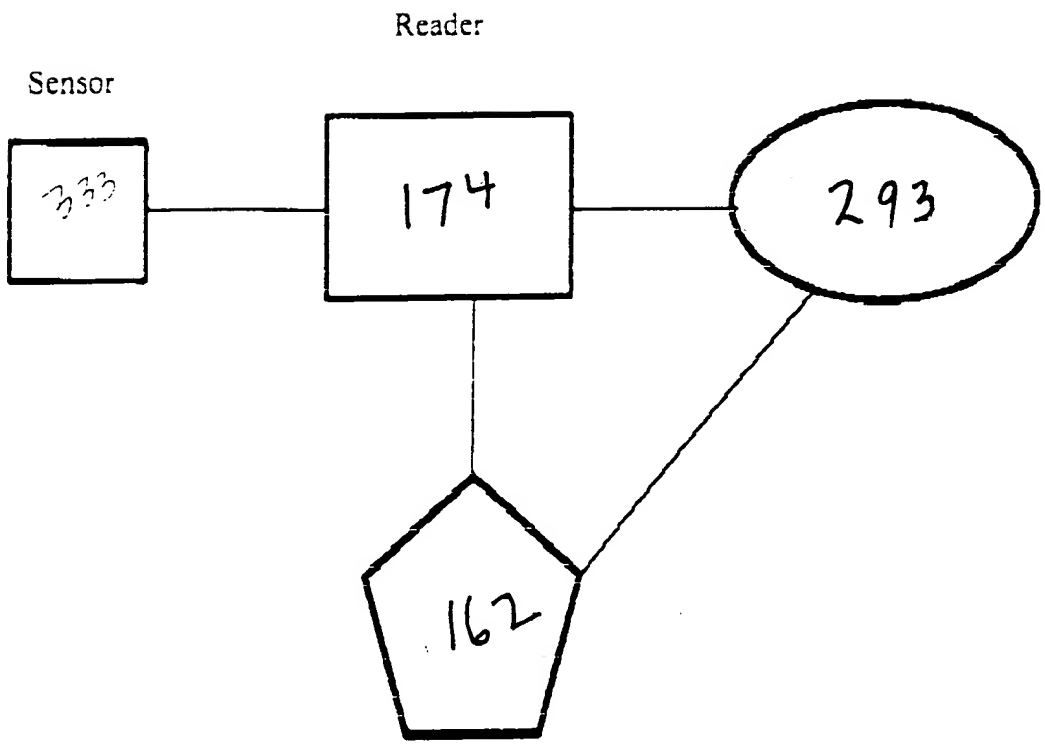

Determining Mechanism
Reader
Sensor
333
174
293
162
Known Pattern Memory

FIG 101

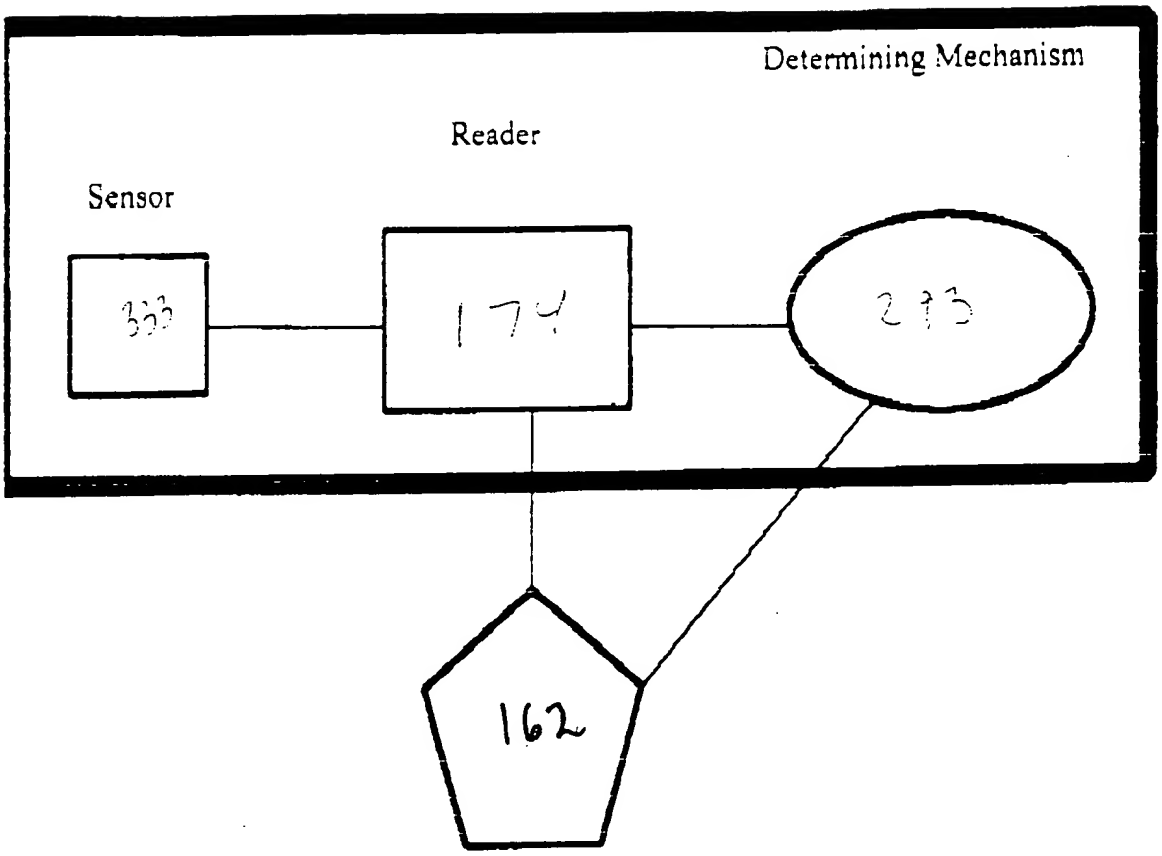

Determining Mechanism
Reader
Sensor
333
174
293
162
Known Pattern Memory

FIG 102

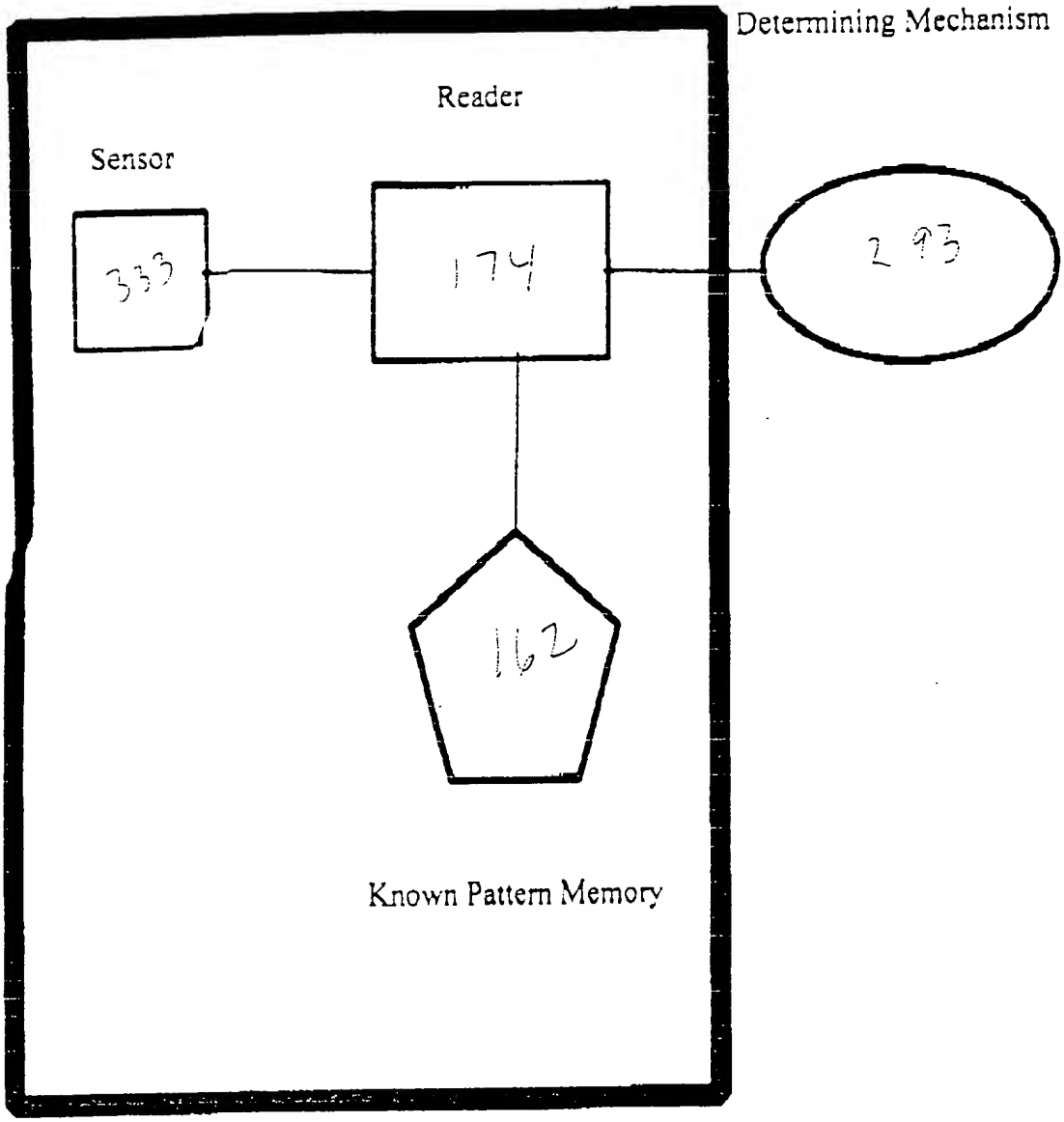

Determining Mechanism
Reader
Sensor
333
174
293
162
Known Pattern Memory

FIG 103

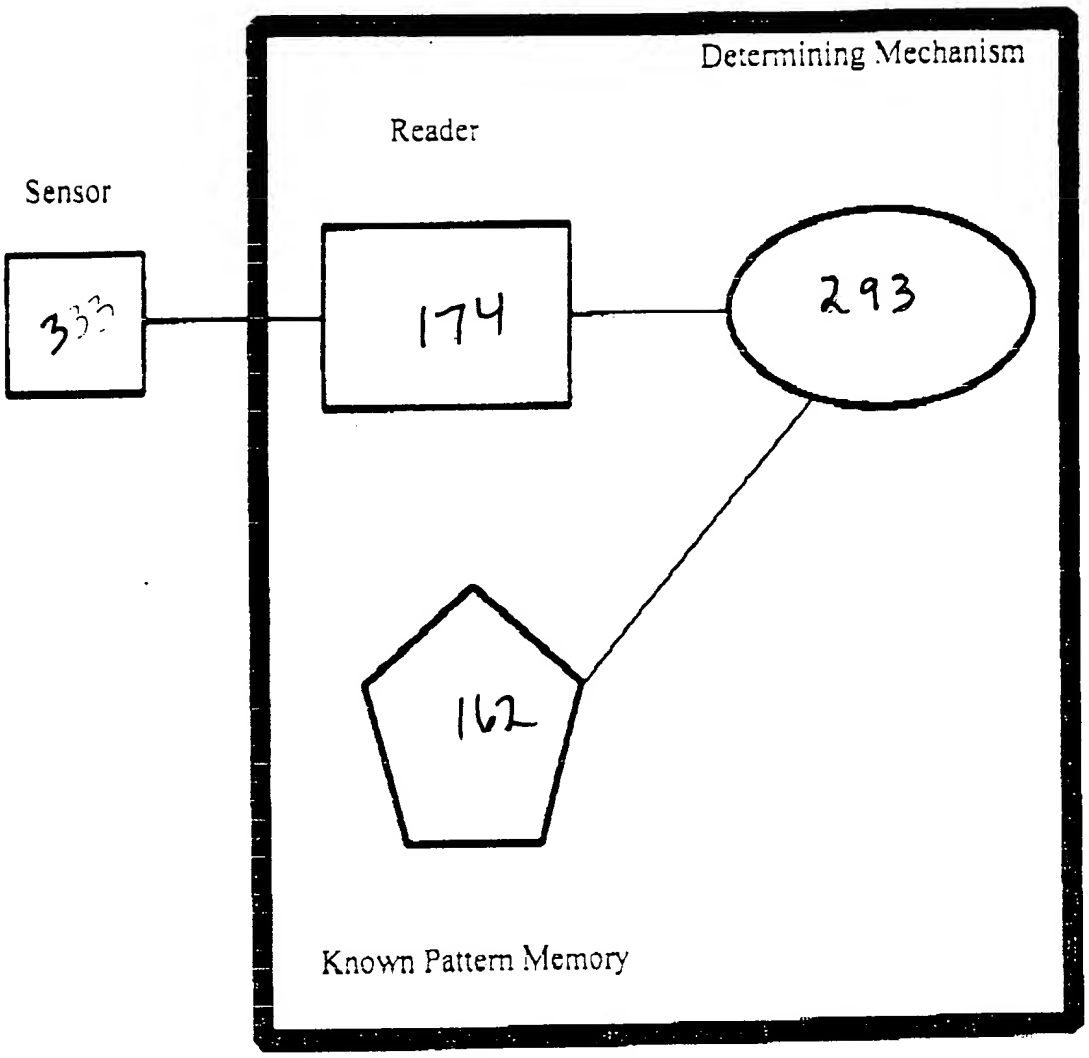

Determining Mechanism
Reader
Sensor
333
174
293
162
Known Pattern Memory

FIG 104

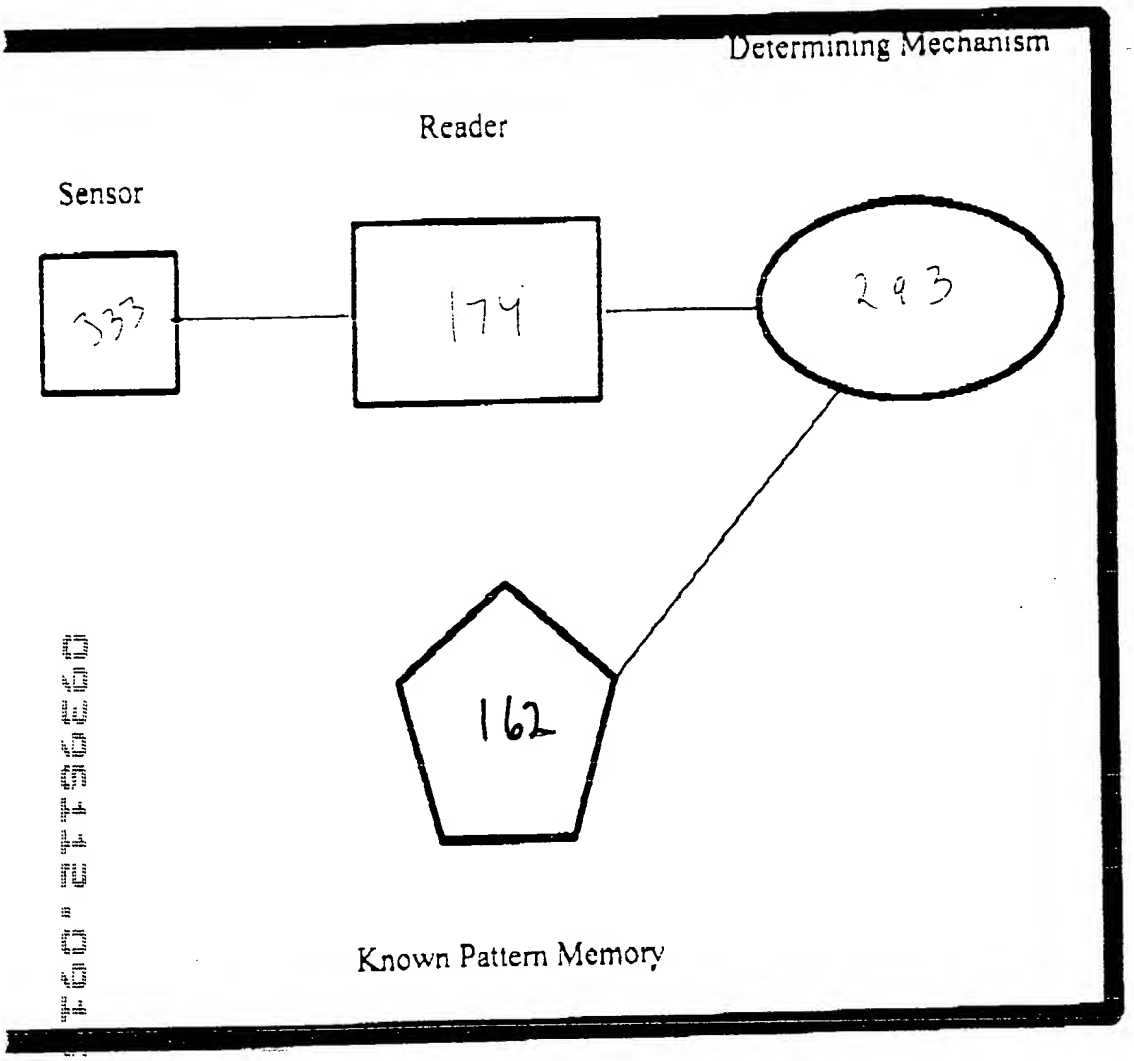

Determining Mechanism
Reader
Sensor
333
174
293
162
Known Pattern Memory

FIG 105

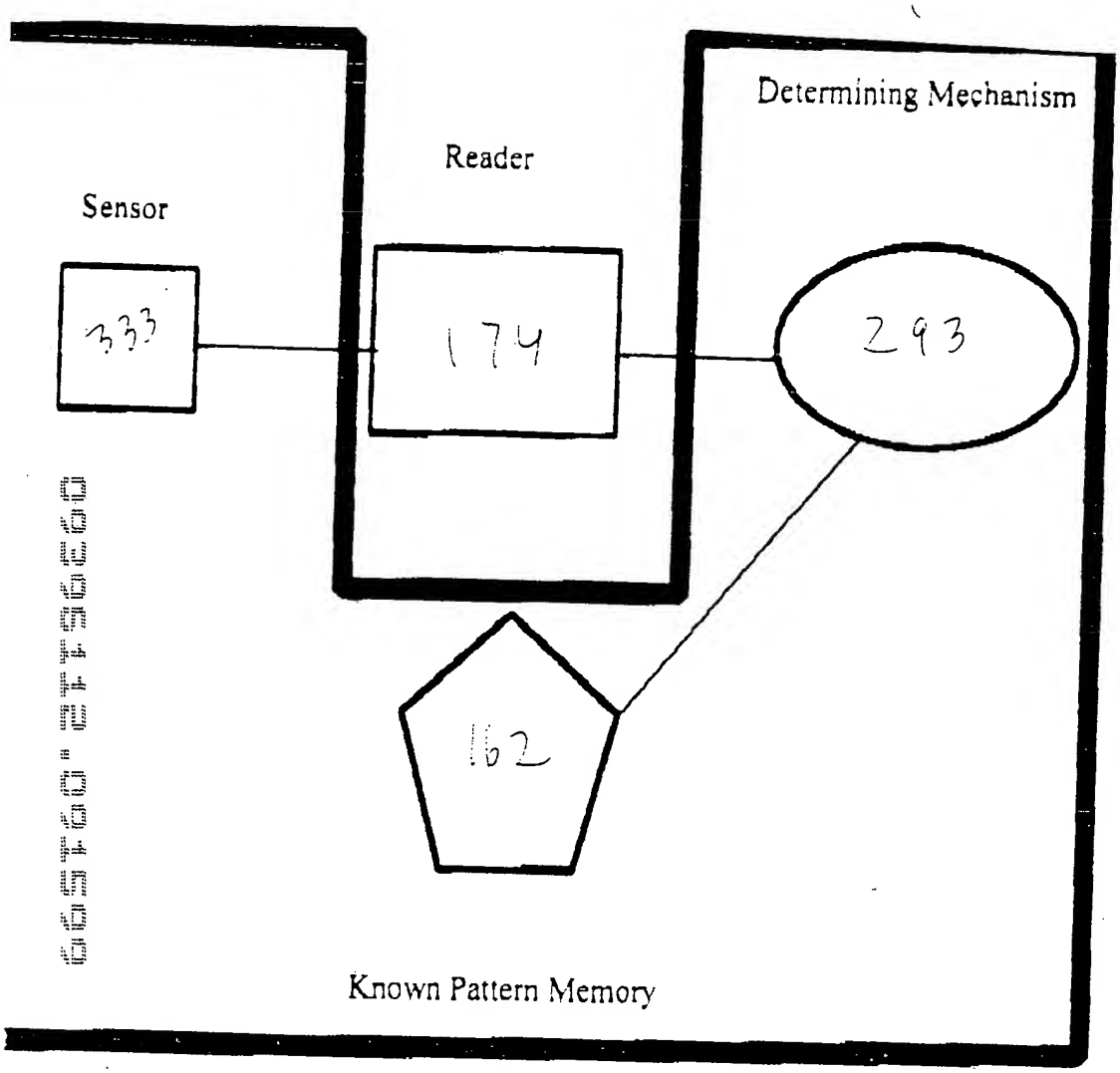

Determining Mechanism
Reader
Sensor
333
174
293
162
Known Pattern Memory

FIG 106

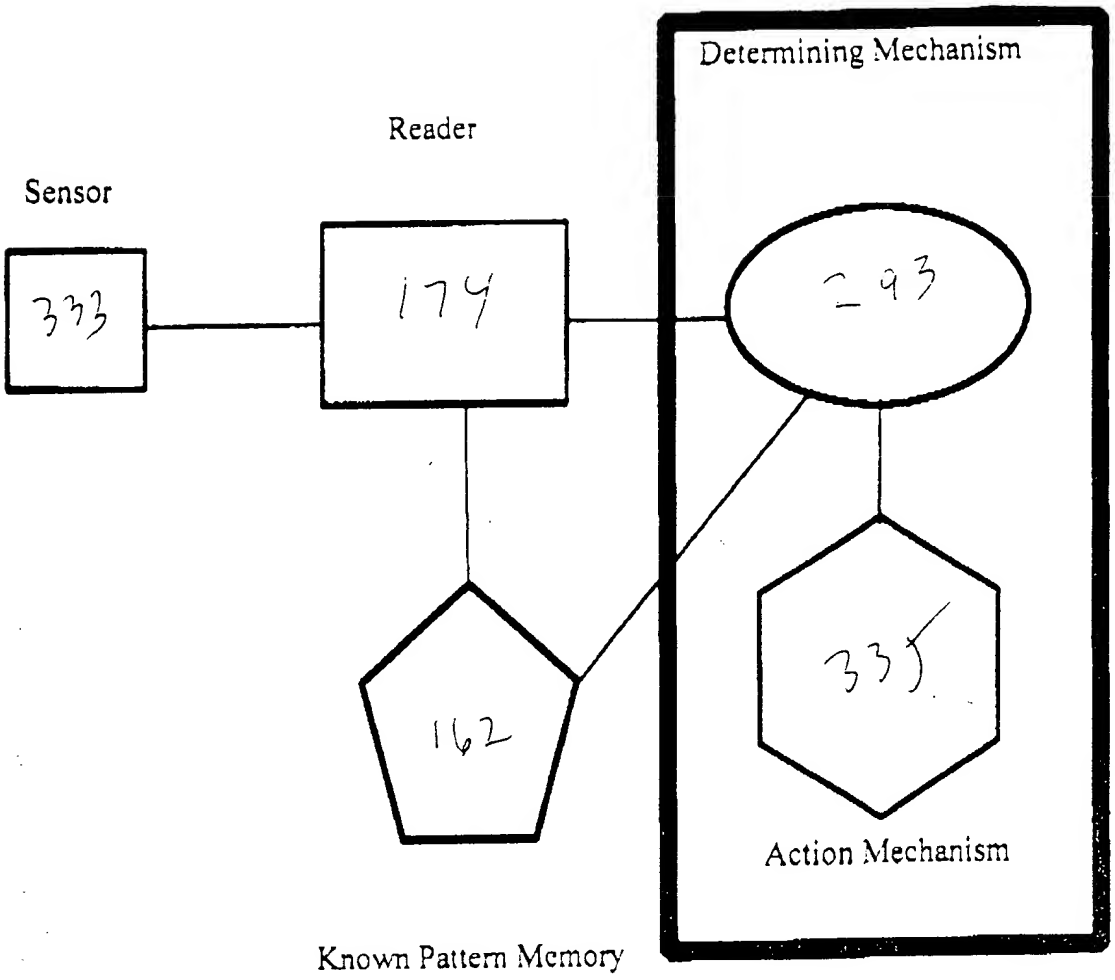

Determining Mechanism
Reader
Sensor
333
174
293
162
335
Action Mechanism
Known Pattern Memory

FIG 107

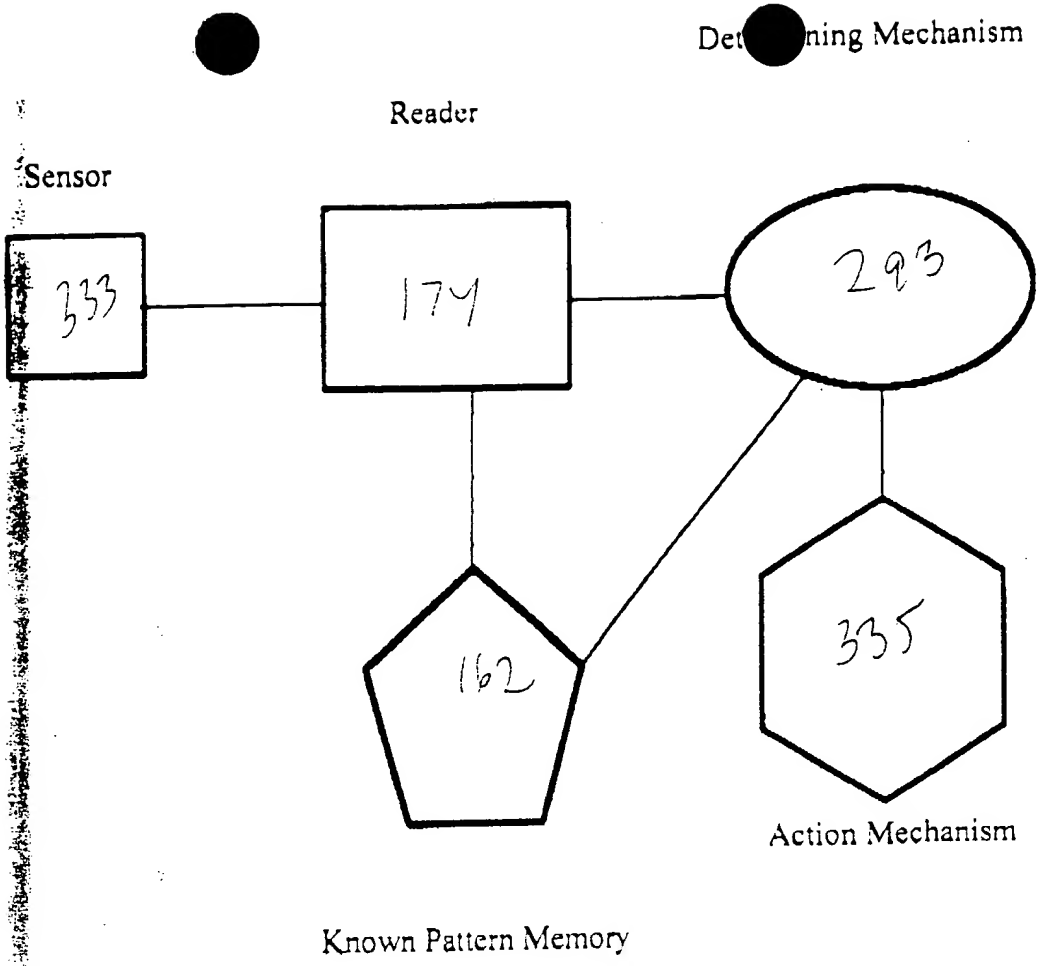

Det ning Mechanism
Reader
Sensor
333
174
293
162
335
Action Mechanism
Known Pattern Memory

FIG 108

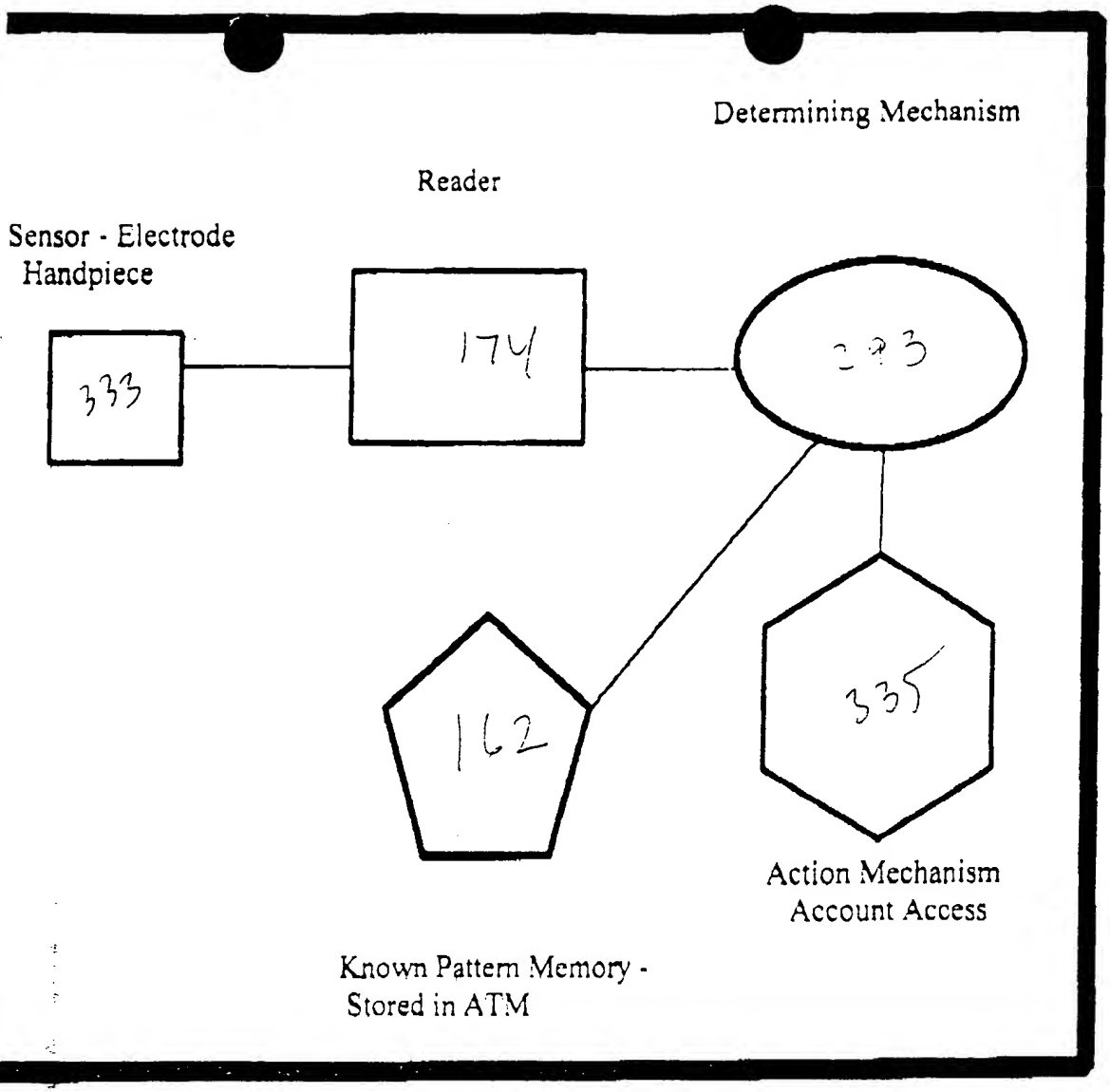

Determining Mechanism
Reader
Sensor - Electrode
Handpiece
333
174
293
162
335
Action Mechanism
Account Access
Known Pattern Memory -
Stored in ATM

FIG 109

ATM

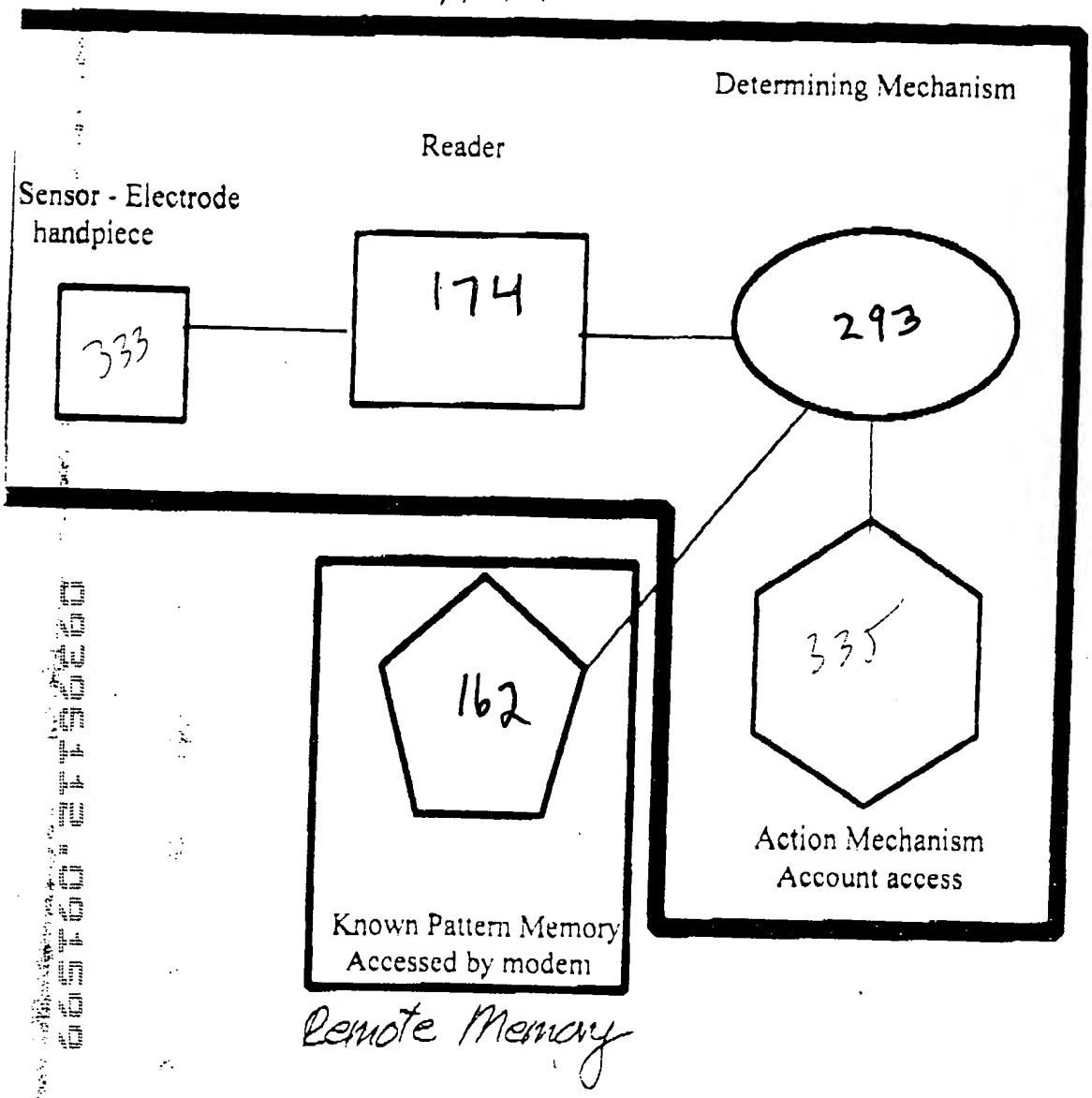

Determining Mechanism
Reader
Sensor - Electrode handpiece
333
174
293
162
335
Action Mechanism
Account access
Known Pattern Memory
Accessed by modem
Remote Memory

FIG 110

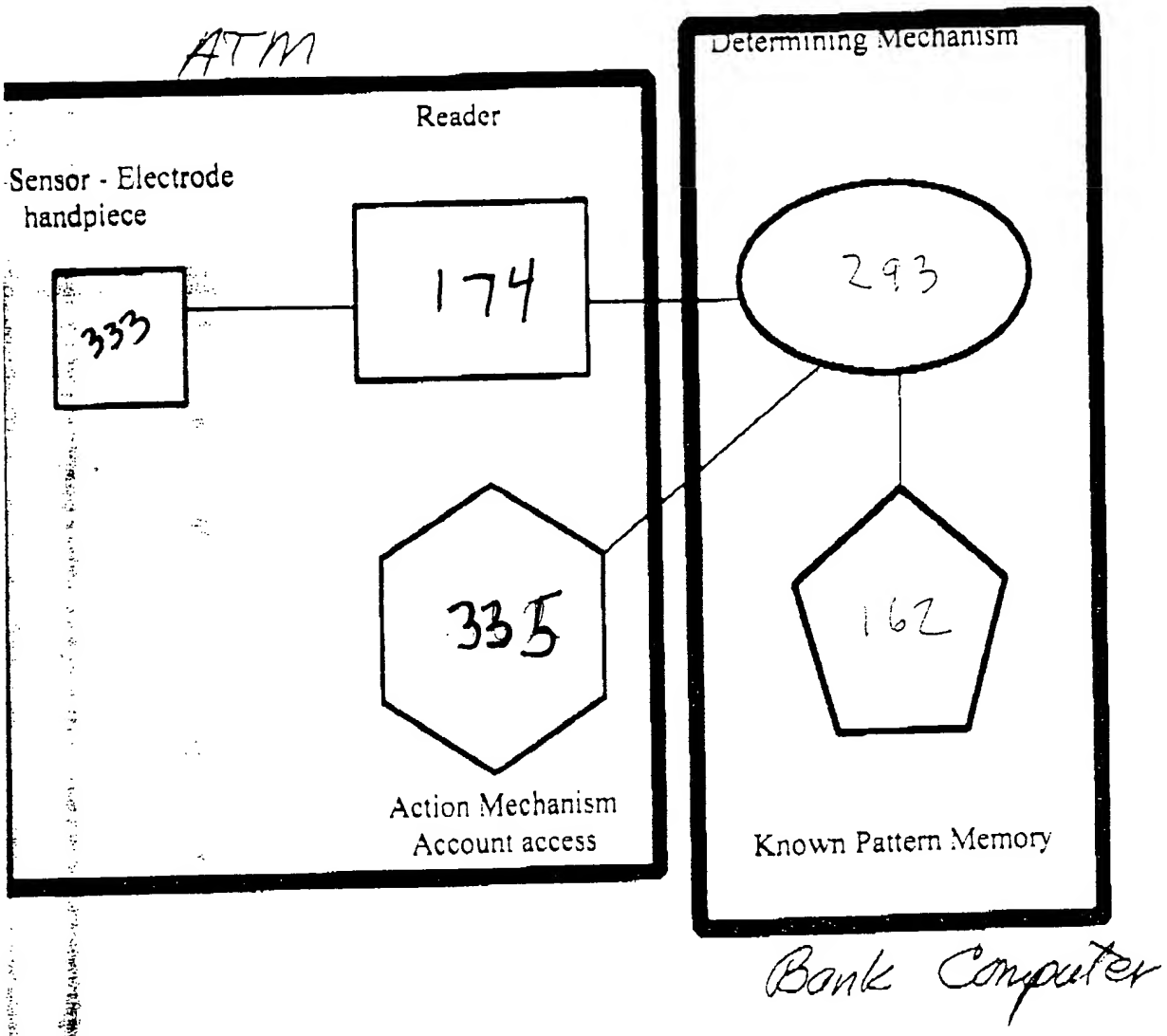

ATM
Reader
Sensor - Electrode handpiece
333
174
335
Action Mechanism
Account access
Determining Mechanism
293
162
Known Pattern Memory
Bank Computer

FIG. 111

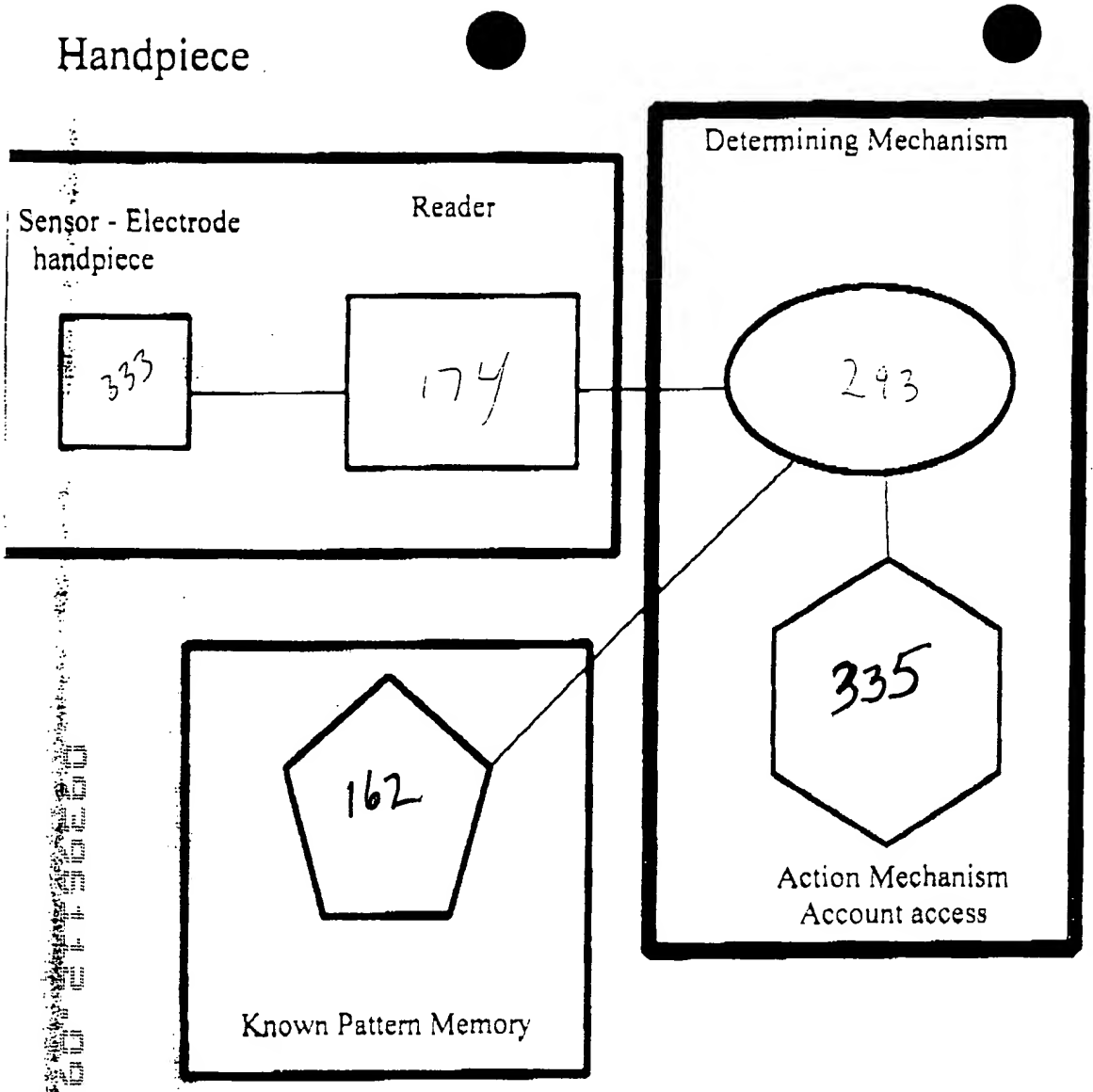

Handpiece
Determining Mechanism
Sensor - Electrode handpiece
Reader
333
174
293
335
162
Action Mechanism
Account access
Known Pattern Memory
Teller Computer
Bank Computer

FIG 112

Handpiece

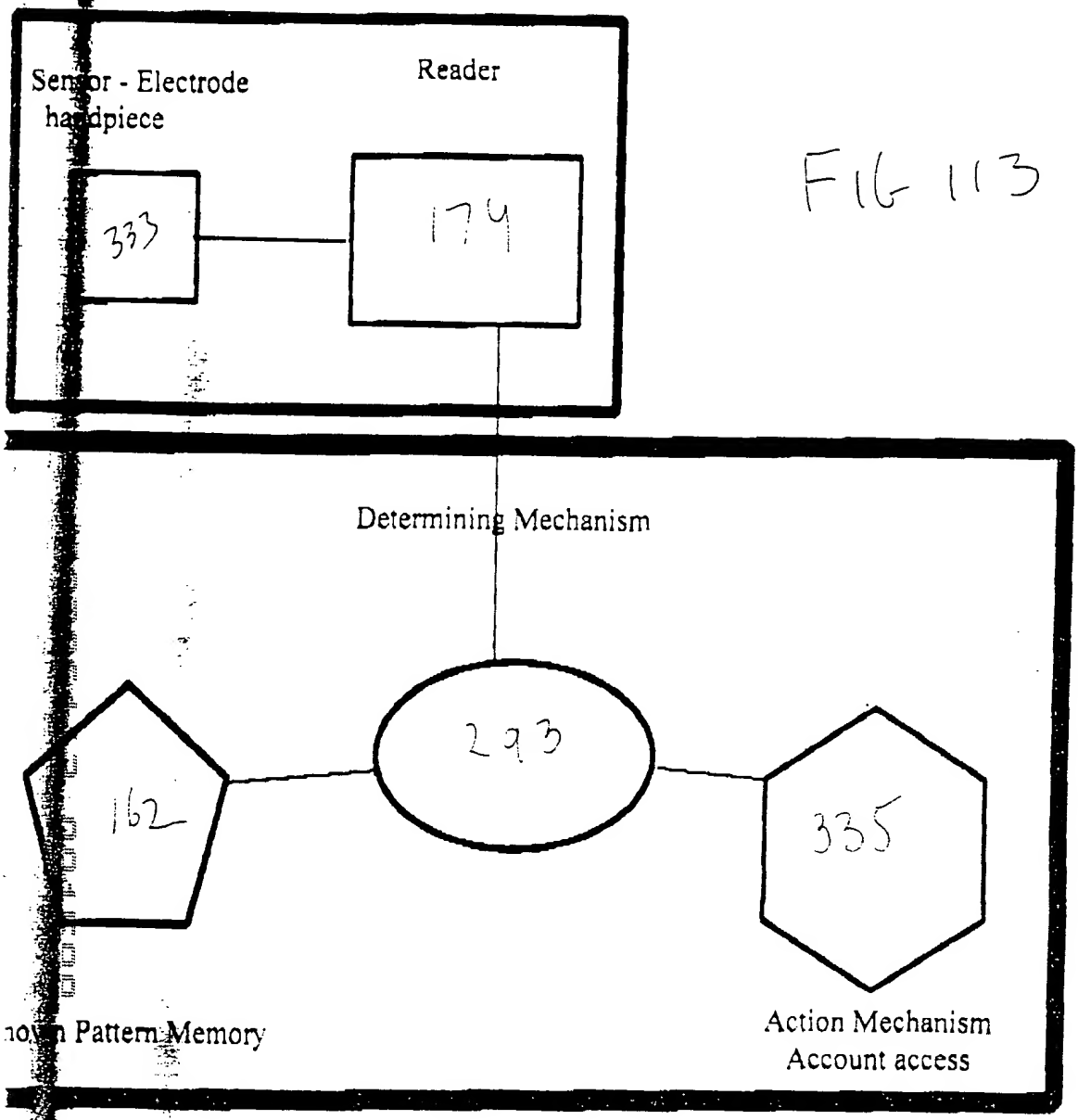


FIG 113

Teller Computer and Display

Card Reader Combination

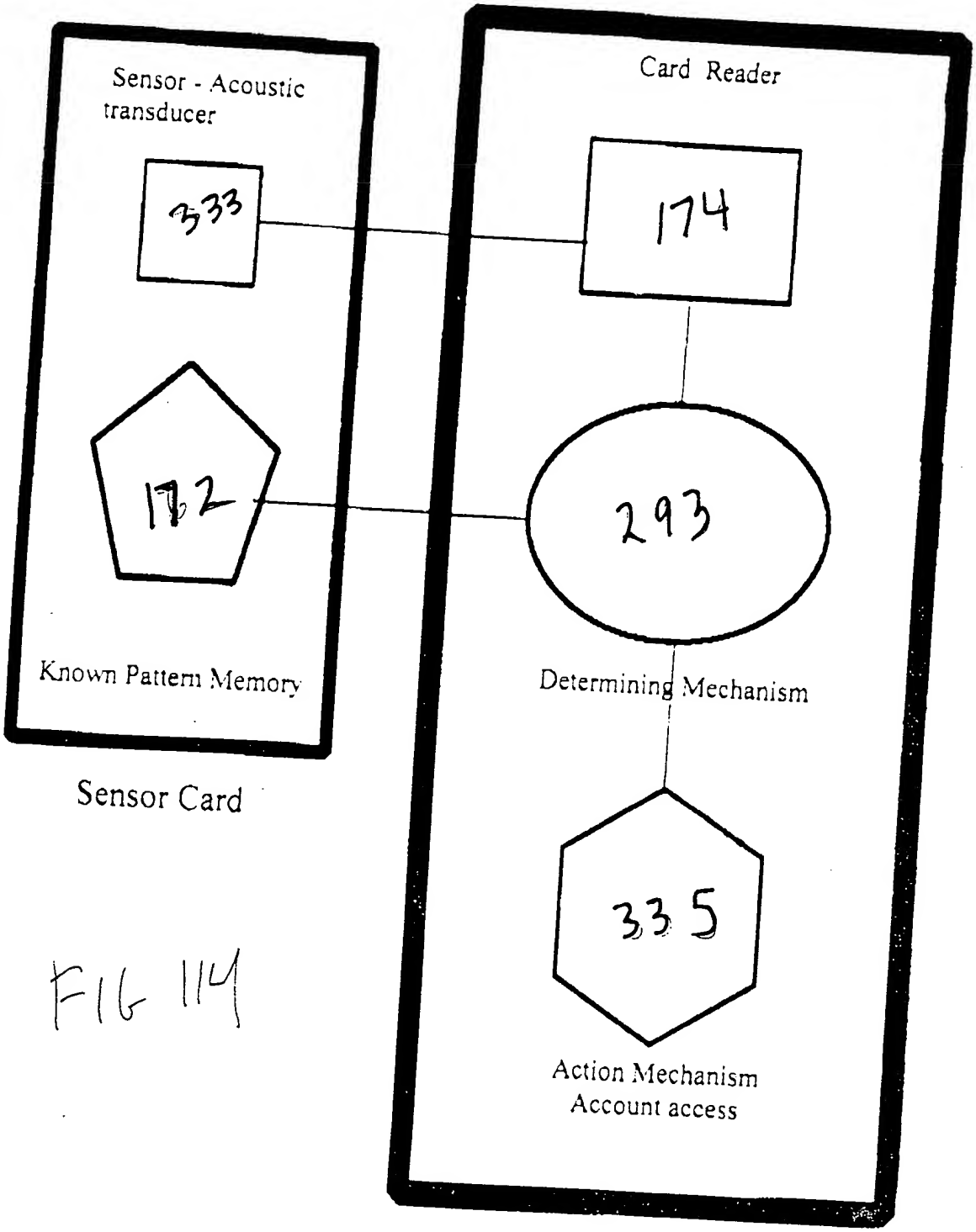
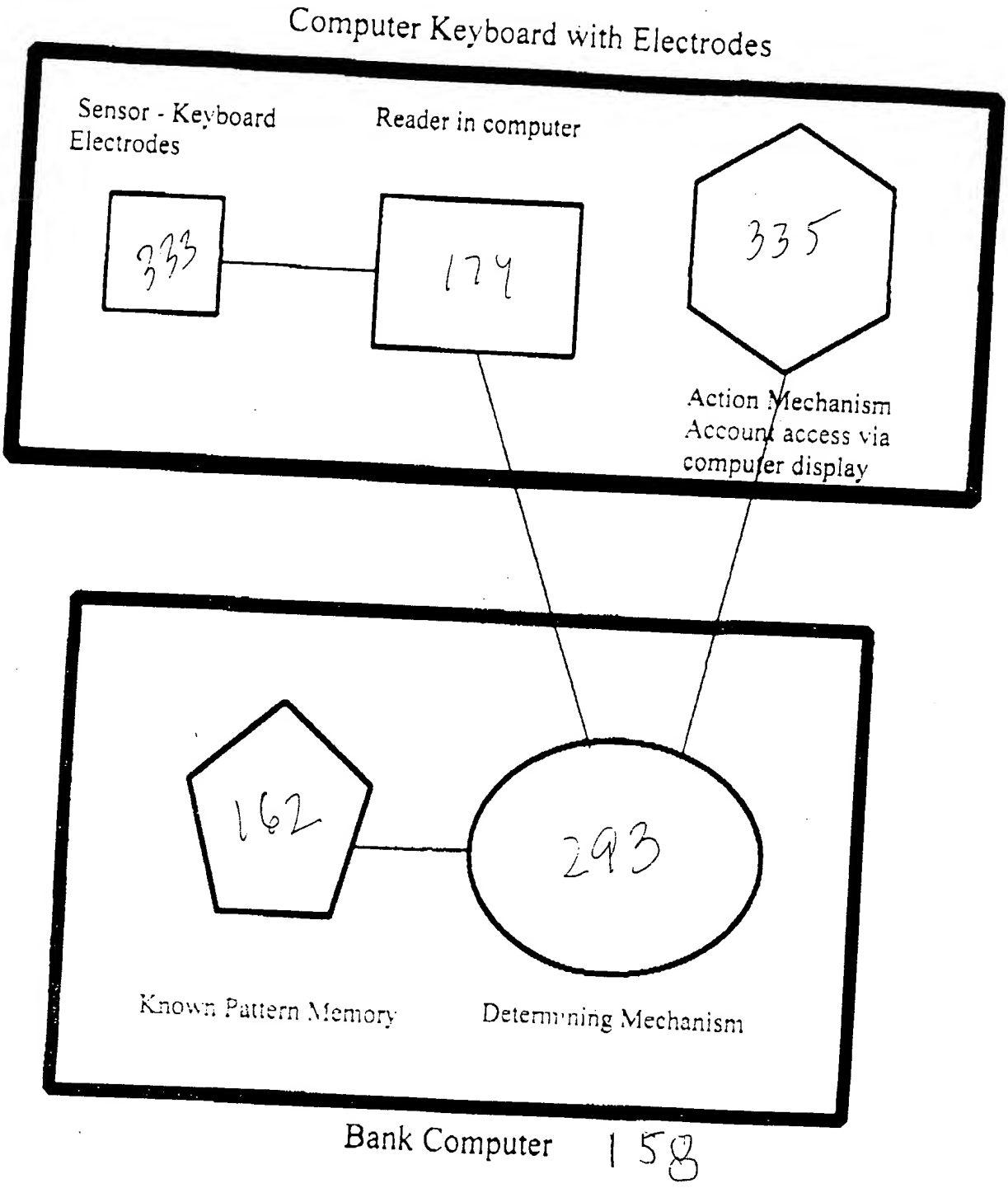


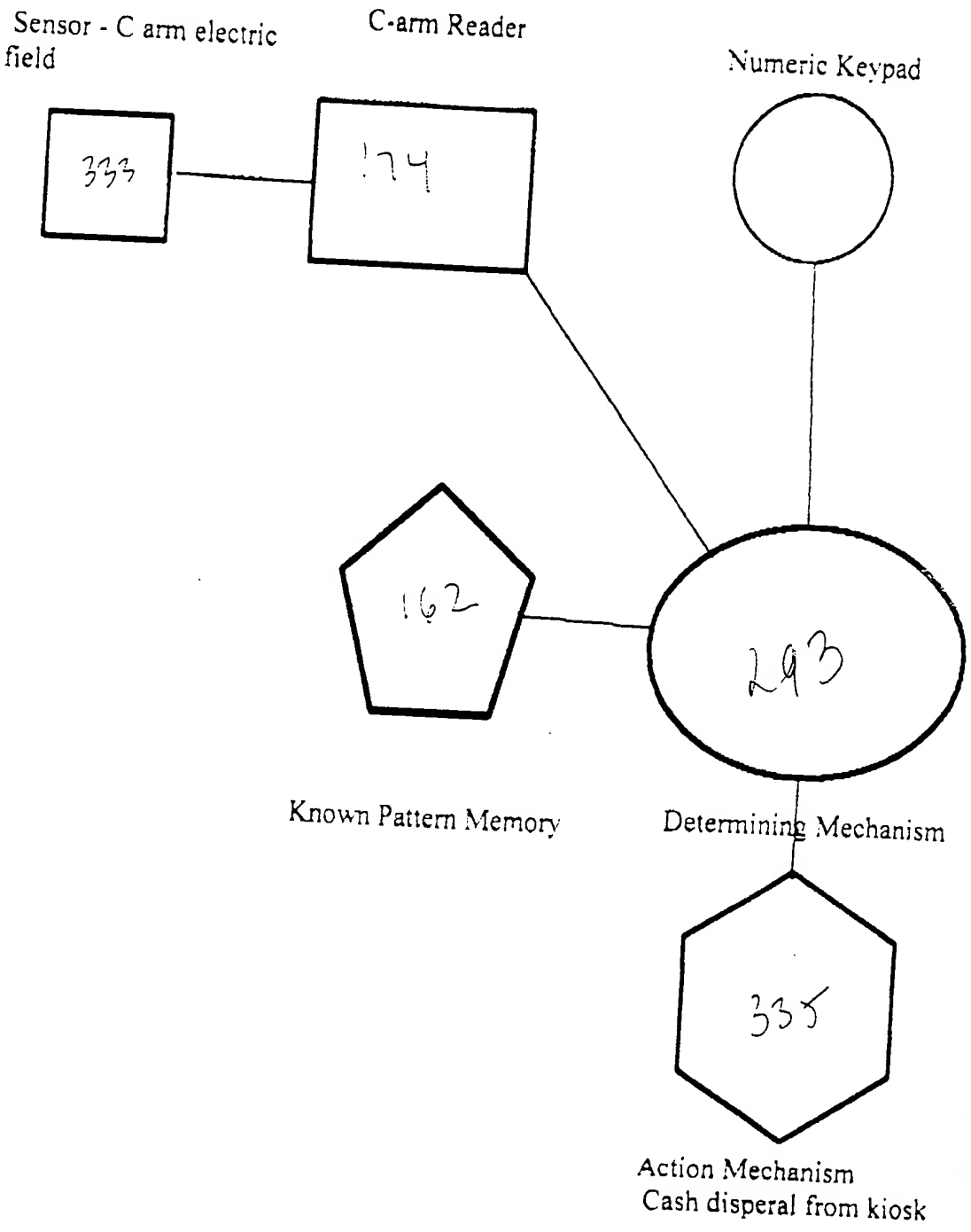
FIG 114

FIG 115


Computer Keyboard with Electrodes
Sensor - Keyboard Electrodes
Reader in computer
333
174
335
Action Mechanism
Account access via computer display
162
293
Known Pattern Memory
Determining Mechanism
Bank Computer
158

Kiosk Combination Device

FIG 116



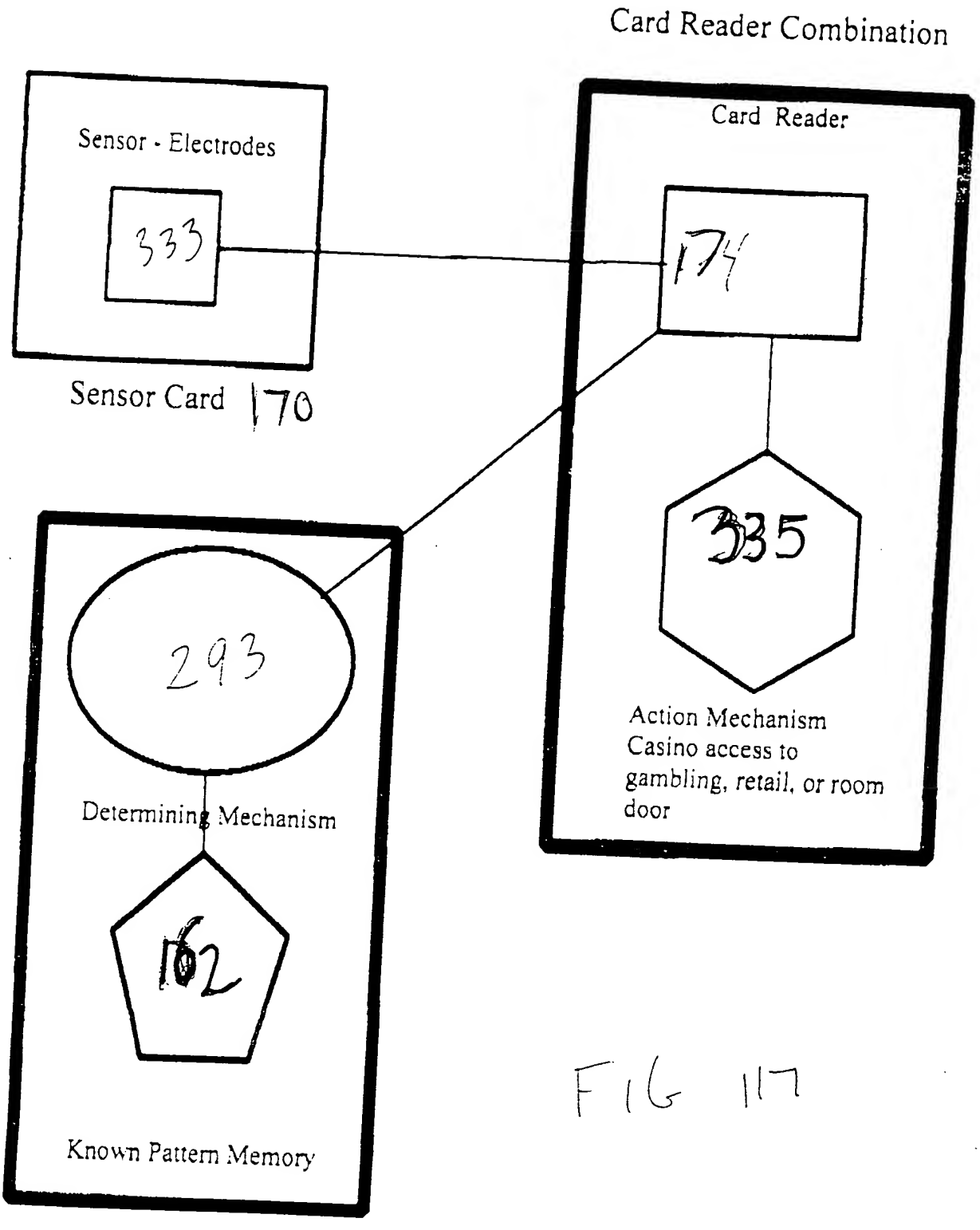
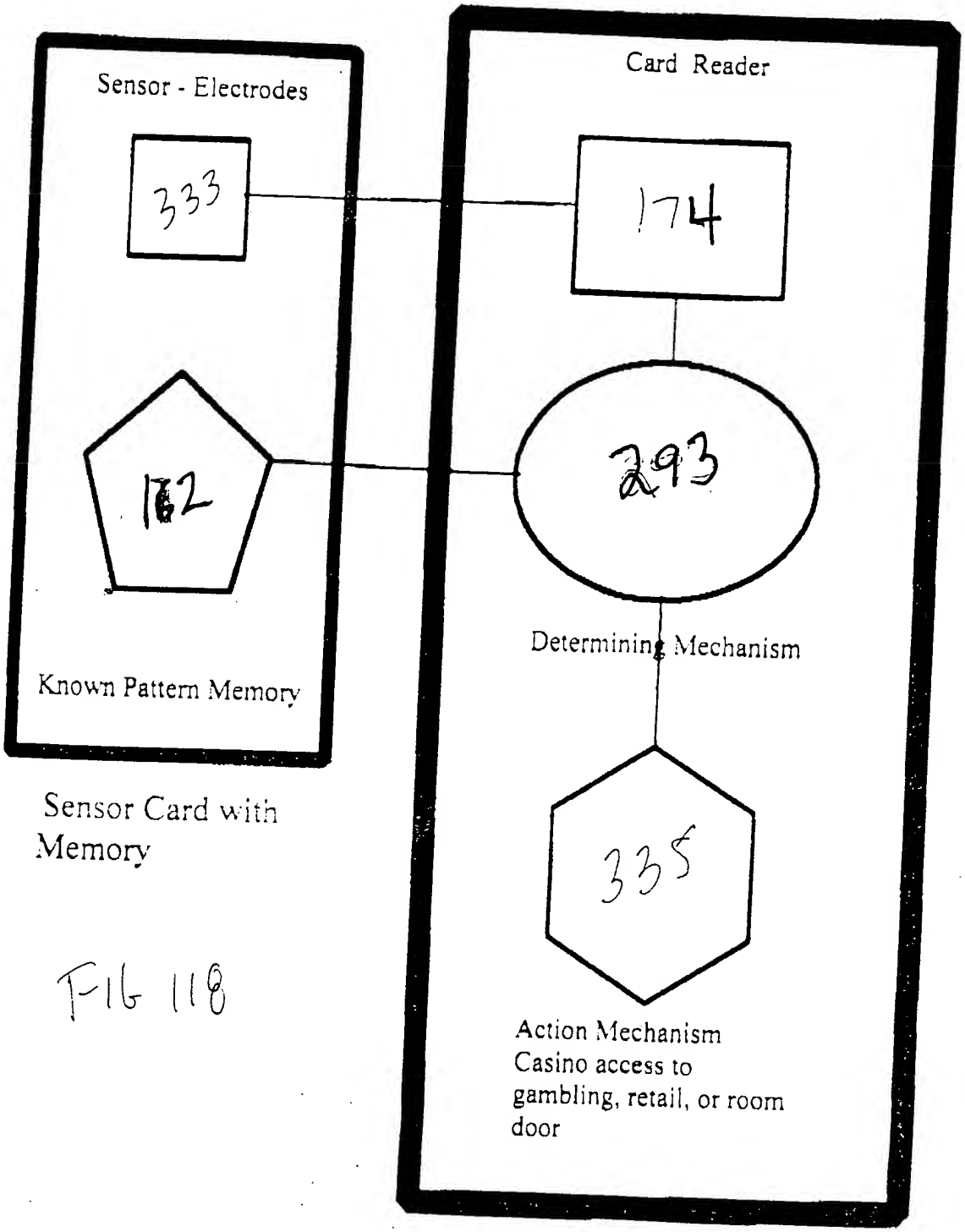

Card Reader Combination
Sensor - Electrodes
333
Sensor Card 170
Card Reader
174
335
Action Mechanism
Casino access to gambling, retail, or room door
293
Determining Mechanism
162
Known Pattern Memory
Casino Computer with Memory 150

FIG 117

Card Reader Combination



Sensor Card with Memory

FIG 118

Card Reader Combination

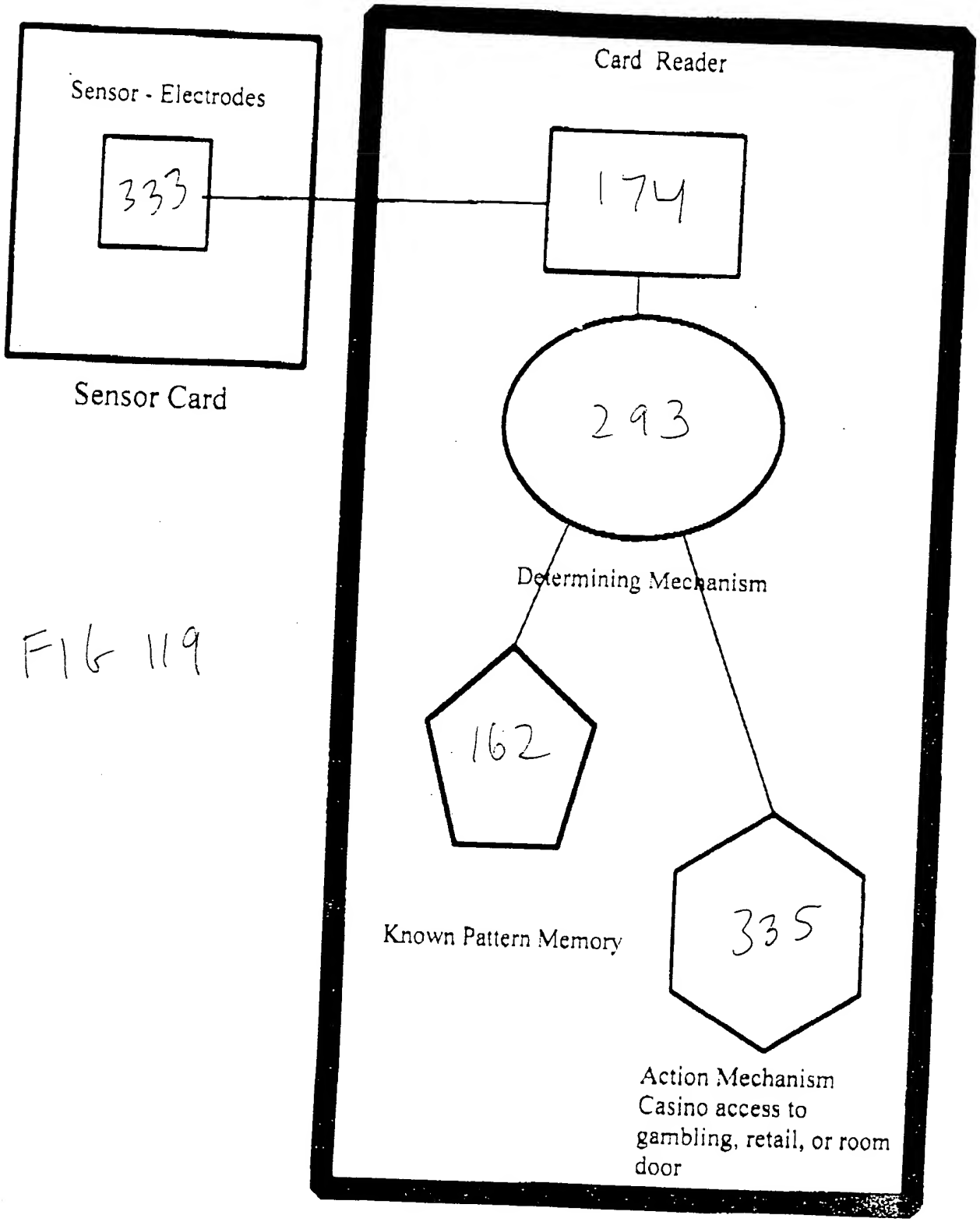


FIG 119

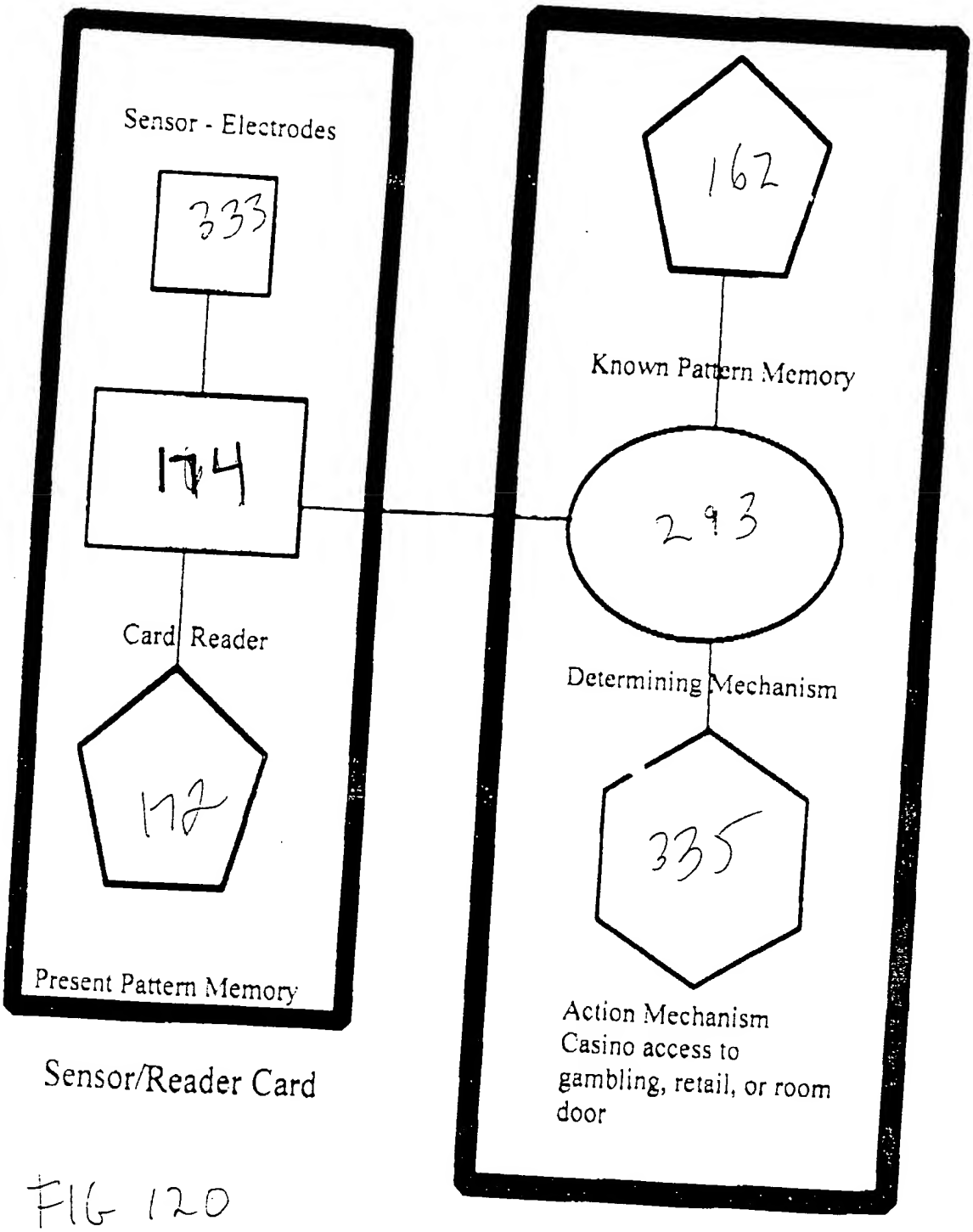

Sensor - Electrodes
333
174
Card Reader
172
Present Pattern Memory
Sensor/Reader Card
162
Known Pattern Memory
293
Determining Mechanism
335
Action Mechanism
Casino access to gambling, retail, or room door
Waiter's Determining Unit

FIG 120

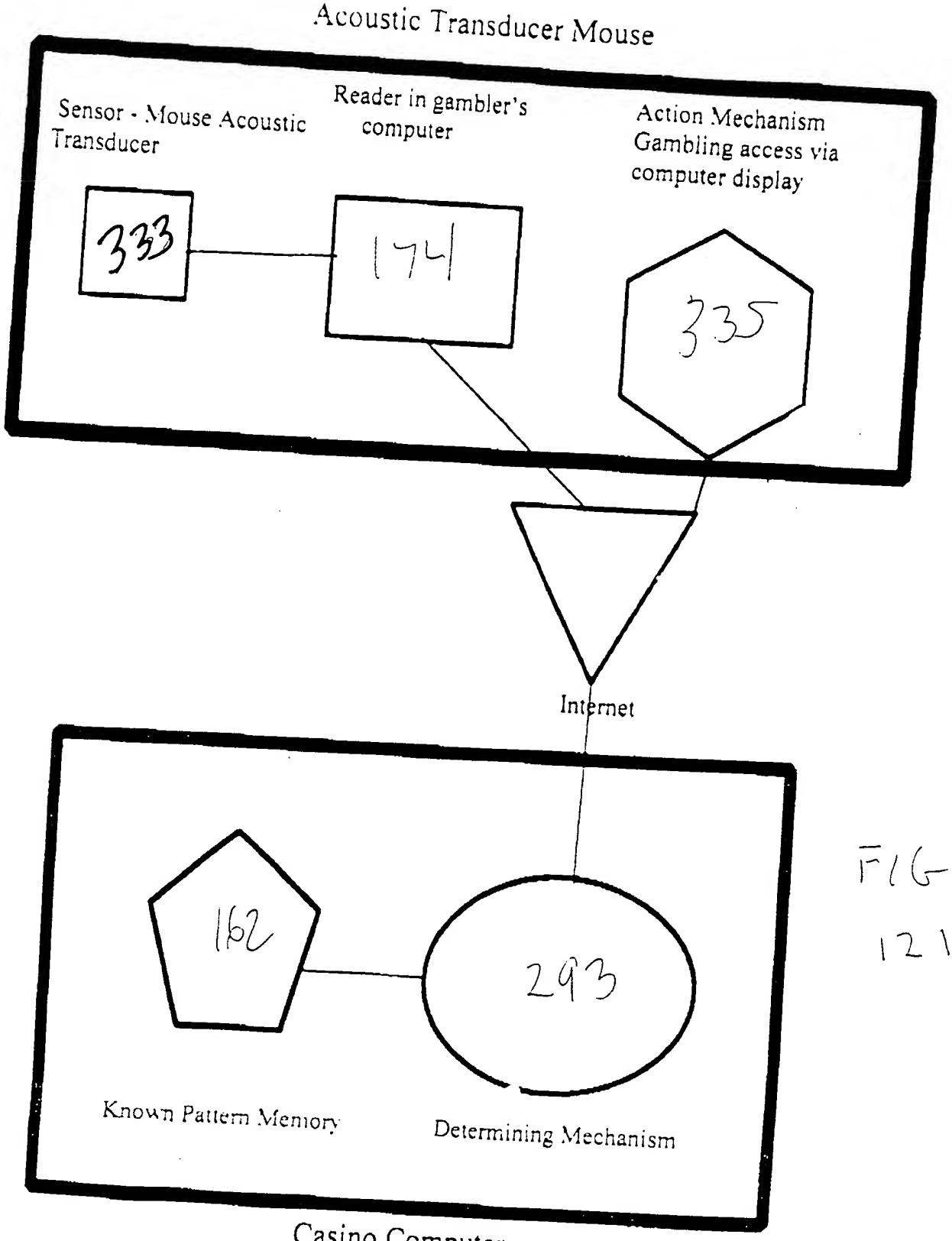

Acoustic Transducer Mouse
Sensor - Mouse Acoustic Transducer
Reader in gambler's computer
Action Mechanism Gambling access via computer display
333
174
335
Internet
162
293
Known Pattern Memory
Determining Mechanism
Casino Computer
158

FIG 121

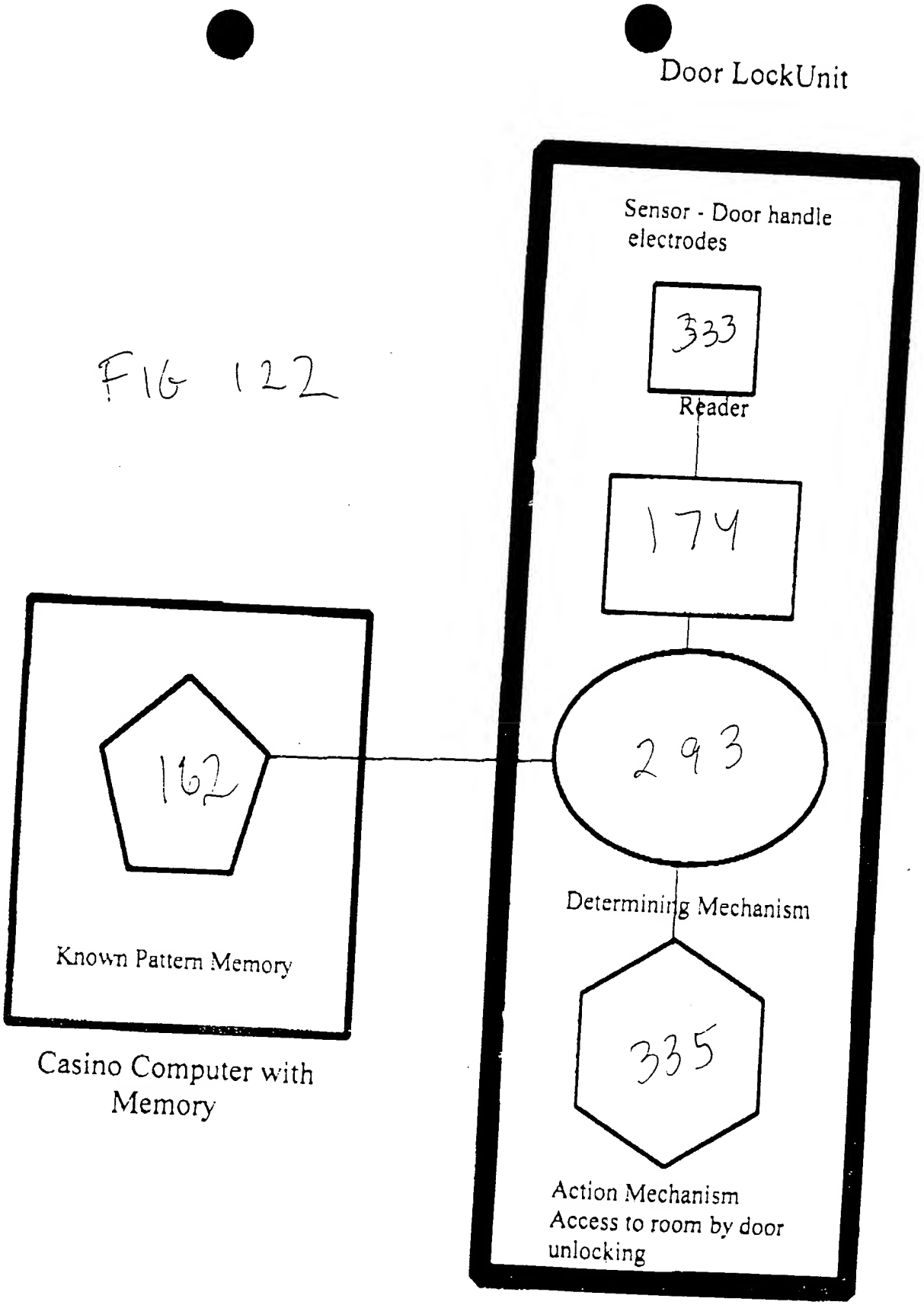

Door LockUnit
Sensor - Door handle electrodes
333
Reader
174
293
Determining Mechanism
335
Action Mechanism
Access to room by door unlocking
162
Known Pattern Memory
Casino Computer with Memory

FIG 122

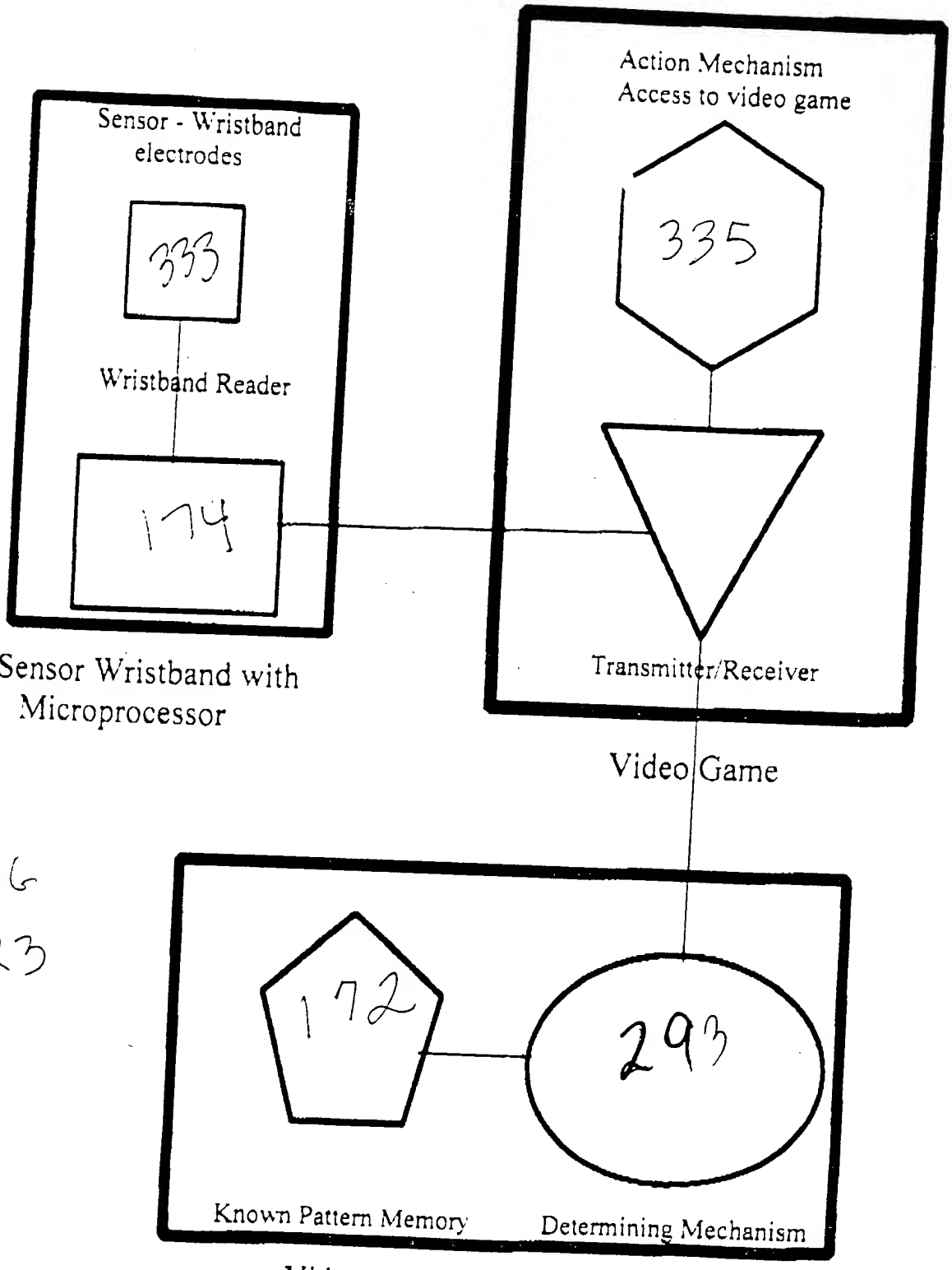

Sensor - Wristband electrodes
333
Wristband Reader
174
Sensor Wristband with Microprocessor
Action Mechanism Access to video game
335
Transmitter/Receiver
Video Game
172
293
Known Pattern Memory
Determining Mechanism
Video Arcade Cash Register 158

FIG 123

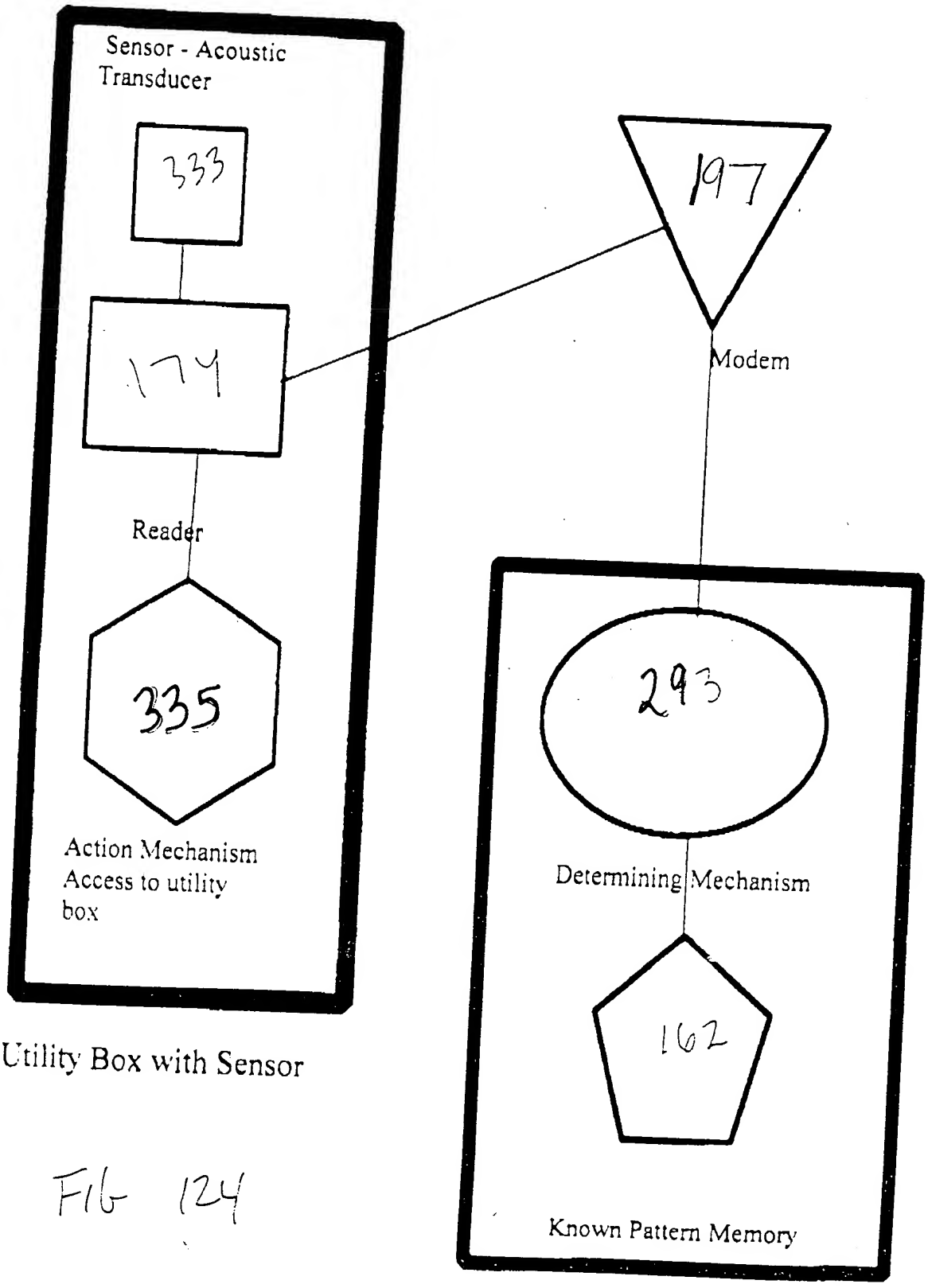

Sensor - Acoustic Transducer
333
174
Reader
335
Action Mechanism Access to utility box
Utility Box with Sensor
197
Modem
293
Determining Mechanism
162
Known Pattern Memory
Telephone Company Computer
158

Fig 124

Utility Box

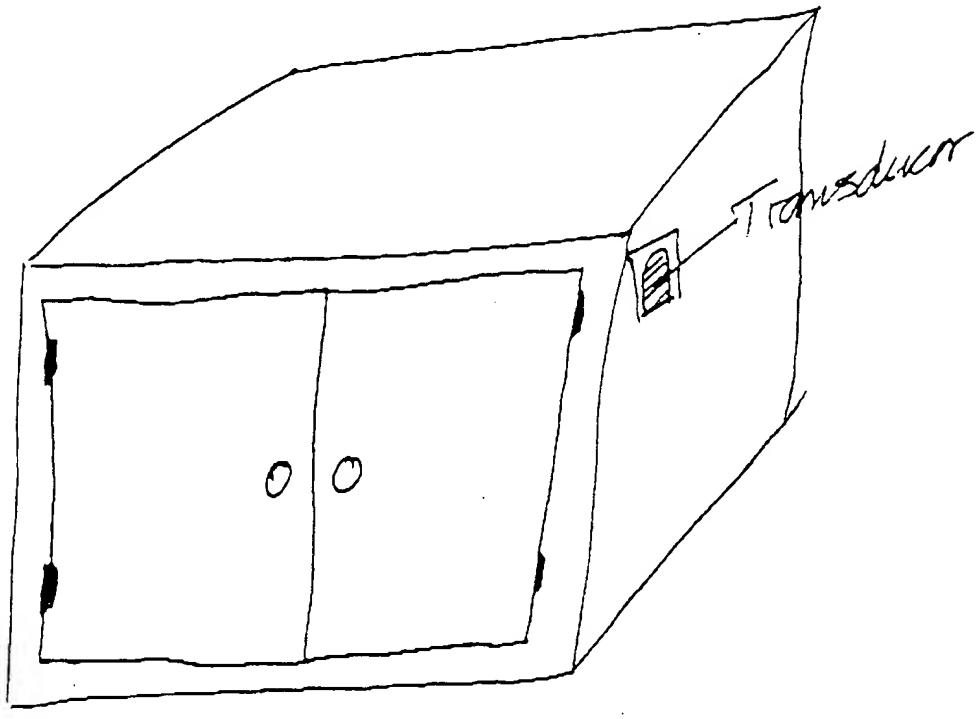


FIG.
124a

5,959,529 - 09/28/1999

Card Reader Electricity Meter

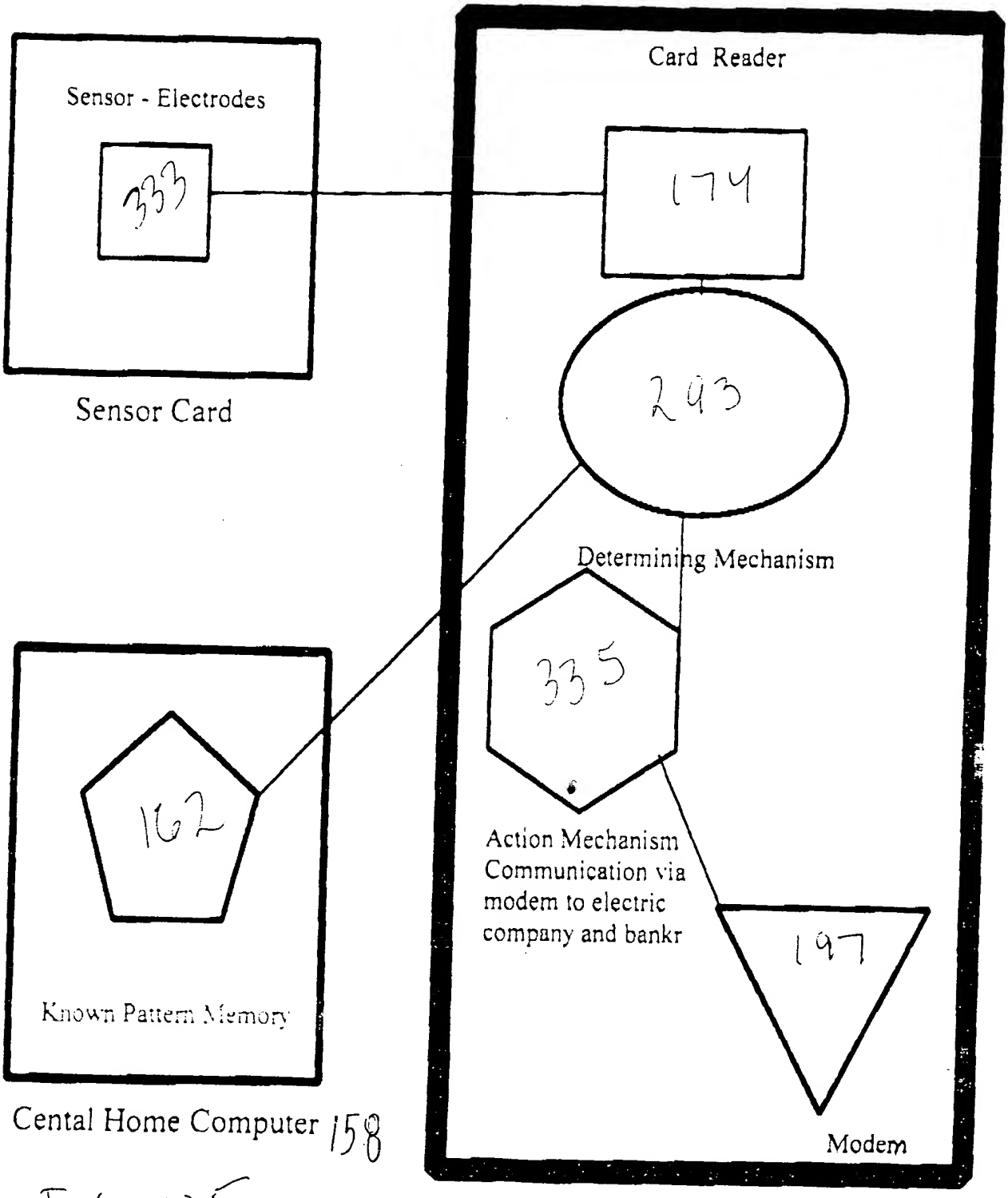


FIG 125

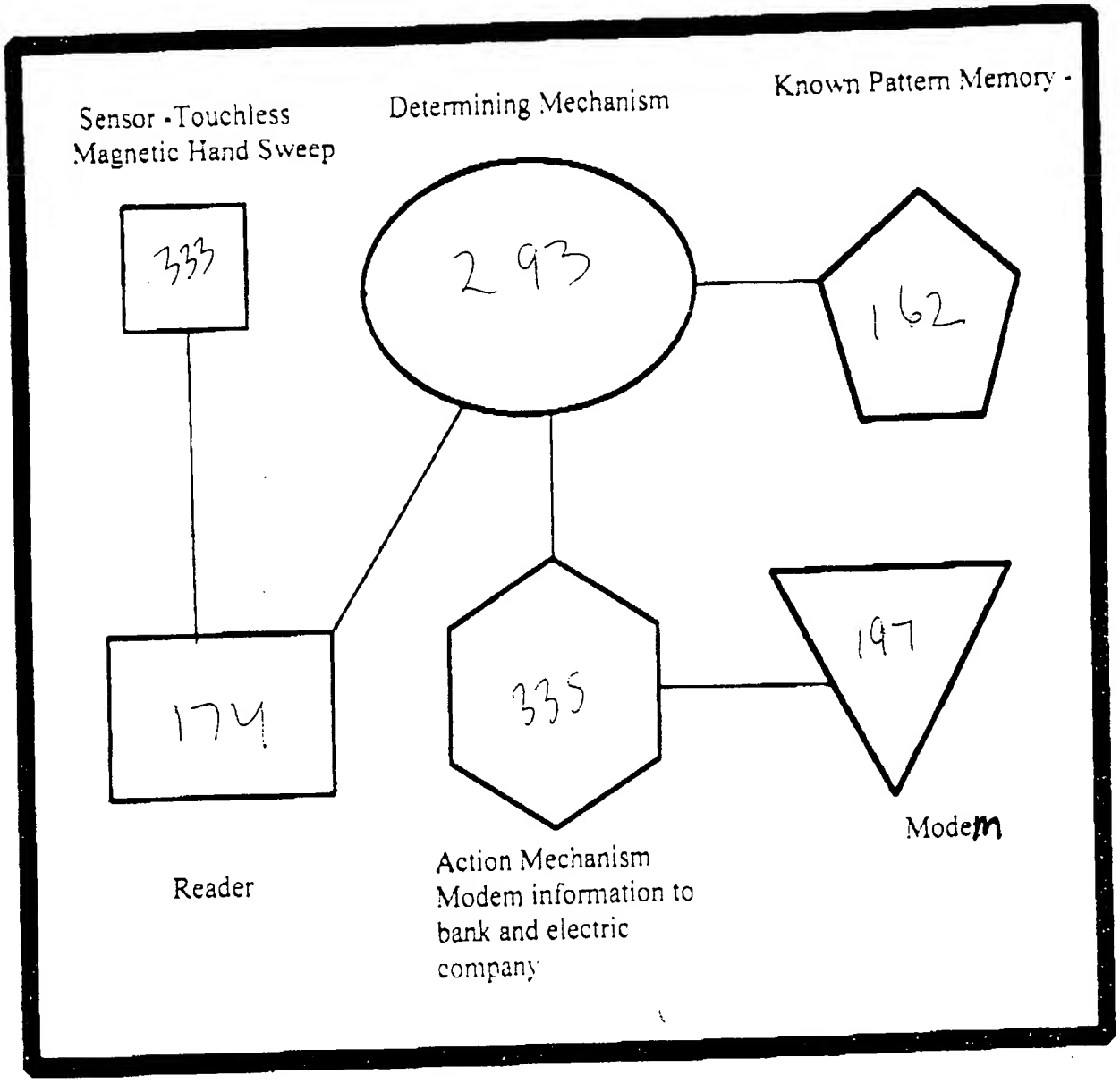
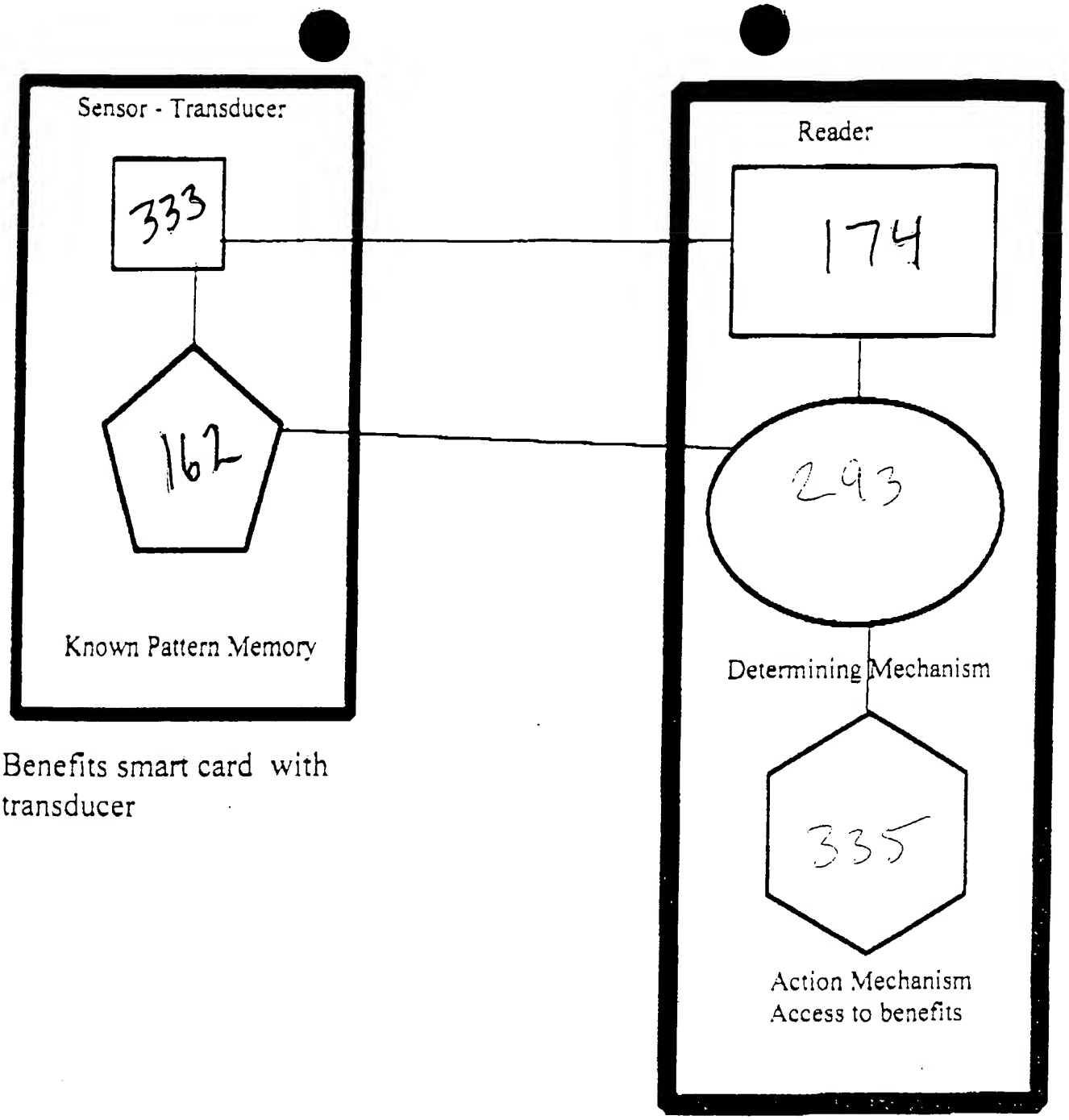

Sensor - Touchless
Magnetic Hand Sweep
Determining Mechanism
Known Pattern Memory -
333
293
162
174
335
197
Reader
Action Mechanism
Modem information to
bank and electric
company
Modem

FIG 126



Benefits smart card with transducer

Smart card reader

FIG 193

Acoustic Handpiece at Cash Register

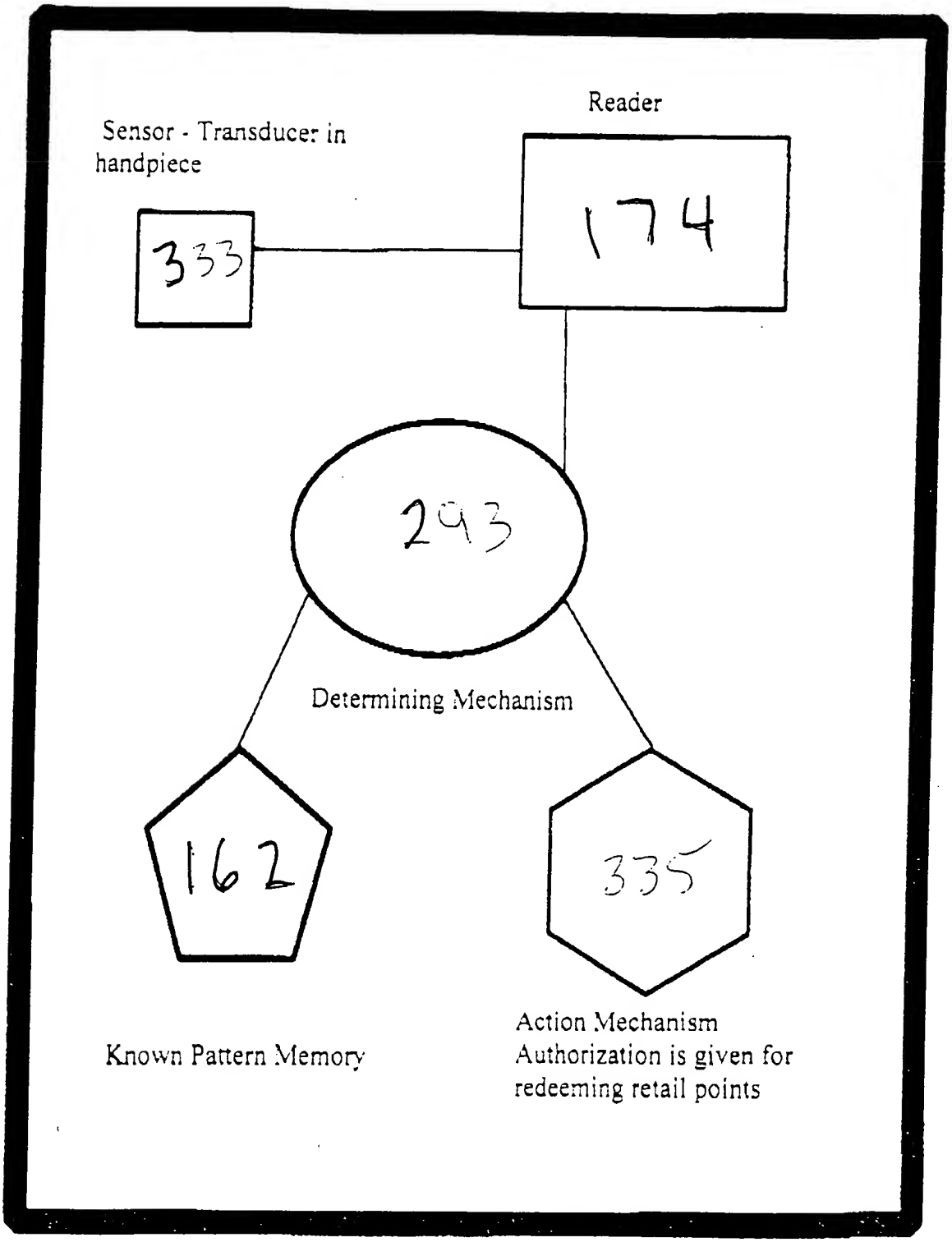


FIG 191

Mouse with electrodes or transducer

Reader Unit communicating with mouse

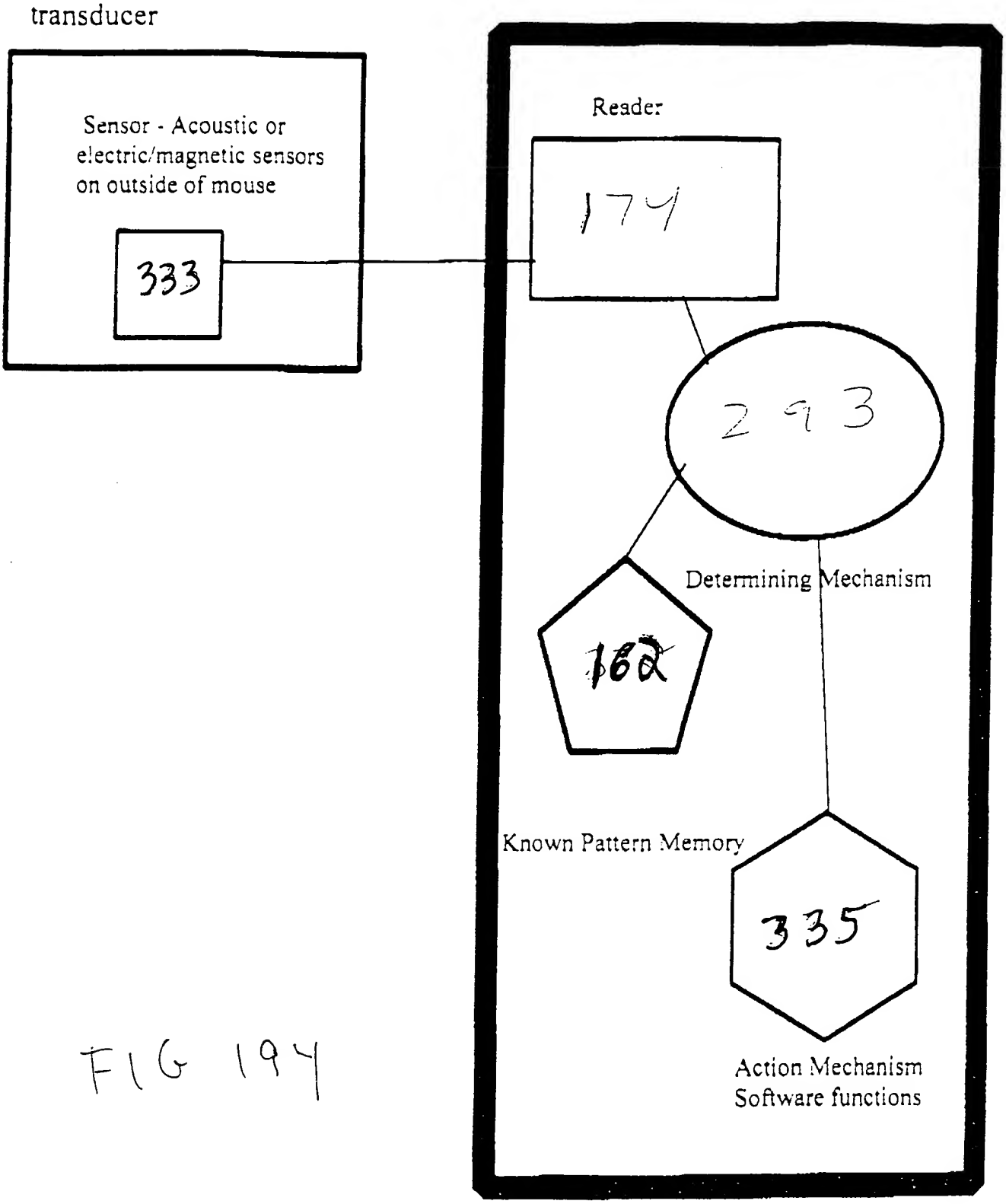


FIG 194

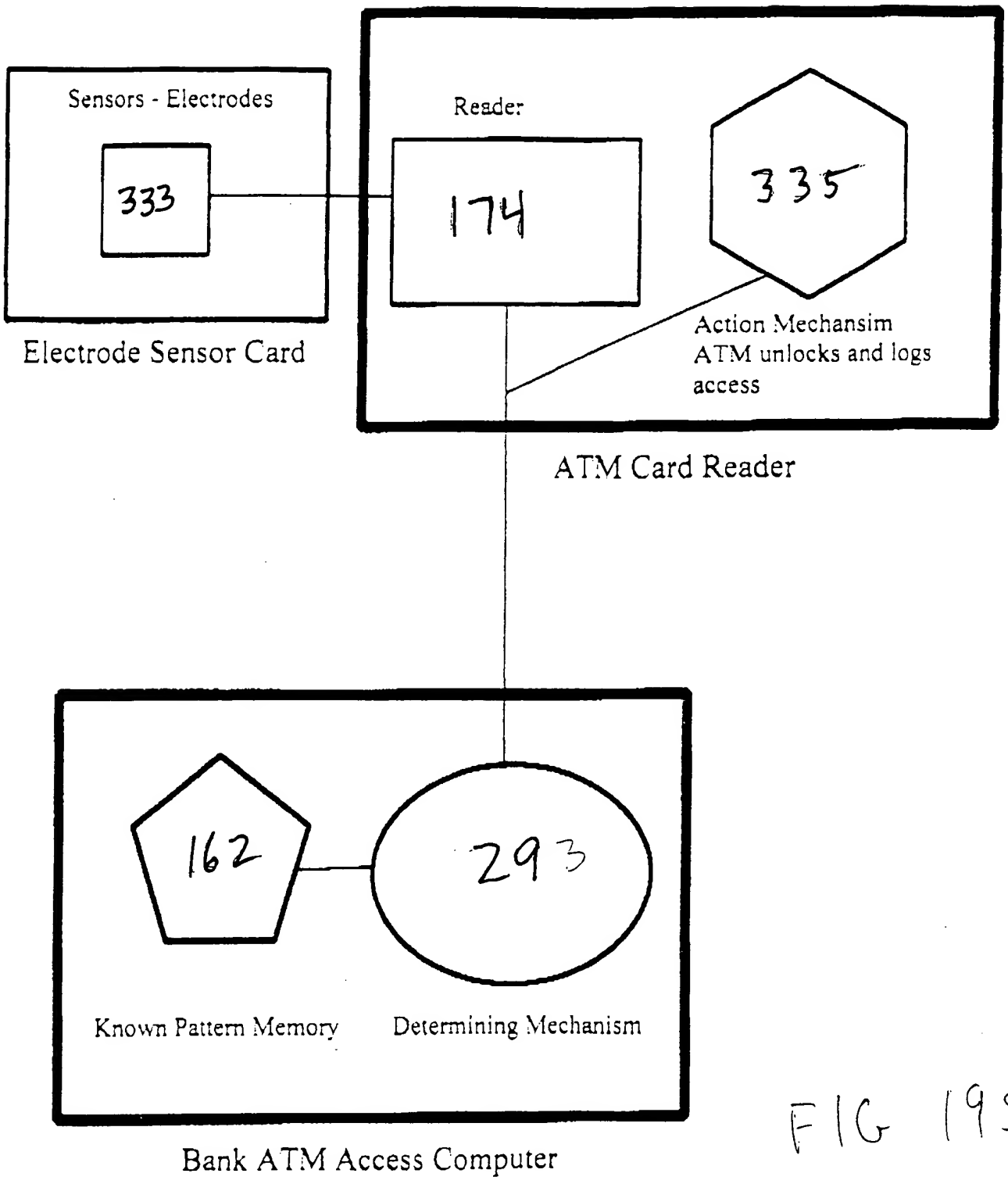
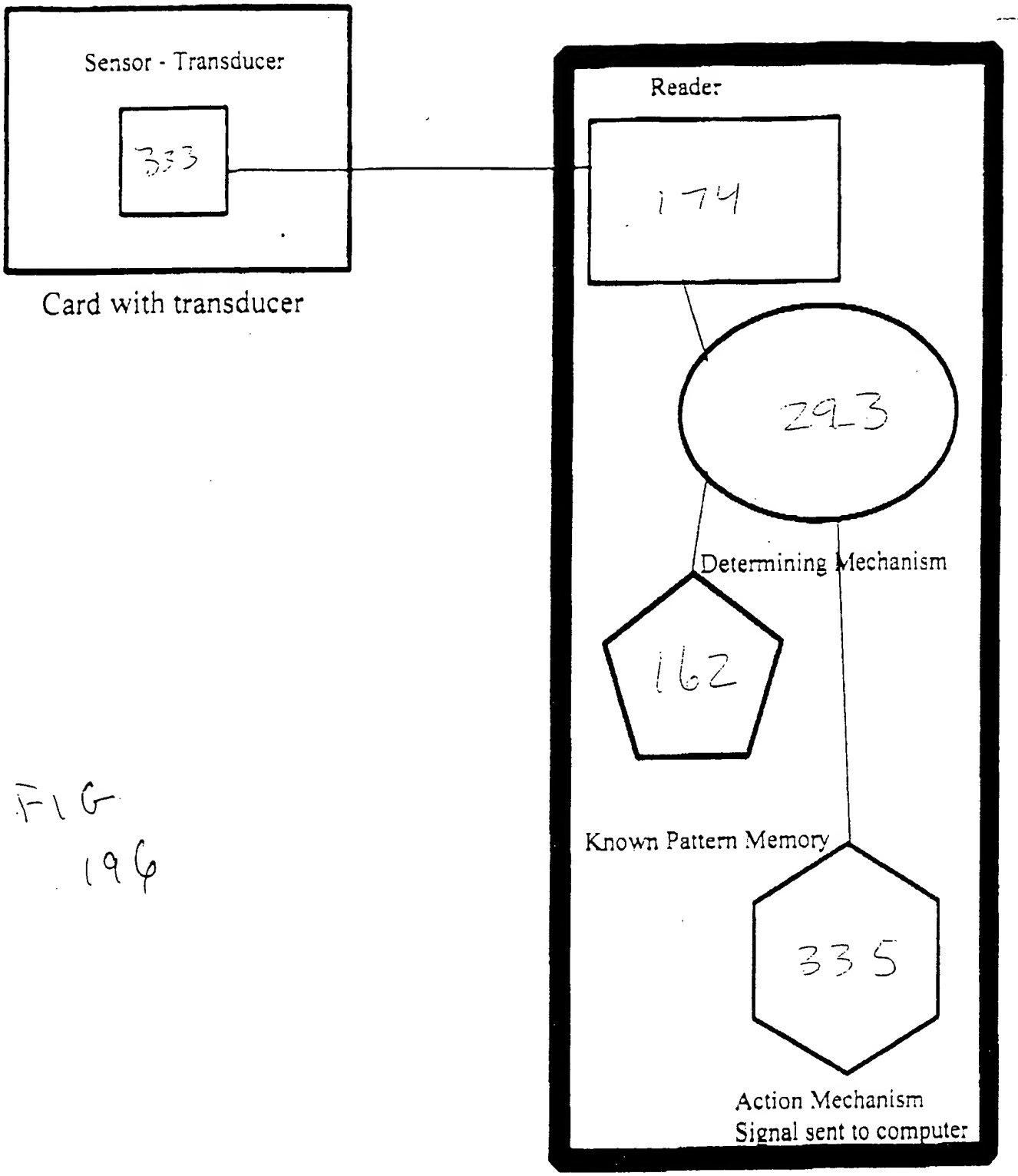

Sensors - Electrodes
333
Electrode Sensor Card
Reader
174
335
Action Mechansim
ATM unlocks and logs
access
ATM Card Reader
162
Known Pattern Memory
293
Determining Mechanism
Bank ATM Access Computer

FIG 195



Card with transducer

Wireless Car System
Communicating with GPS and
home office

FIG
196

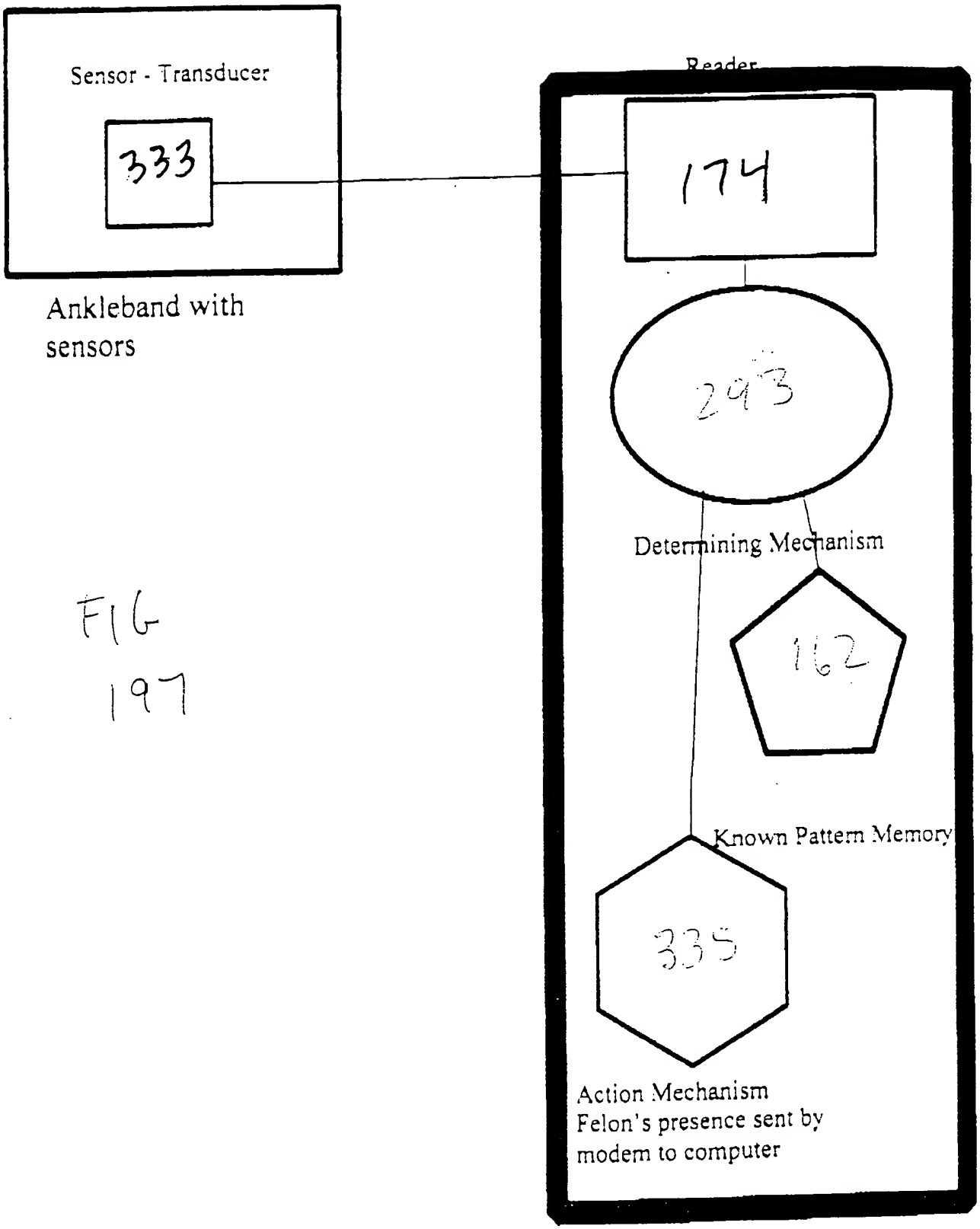
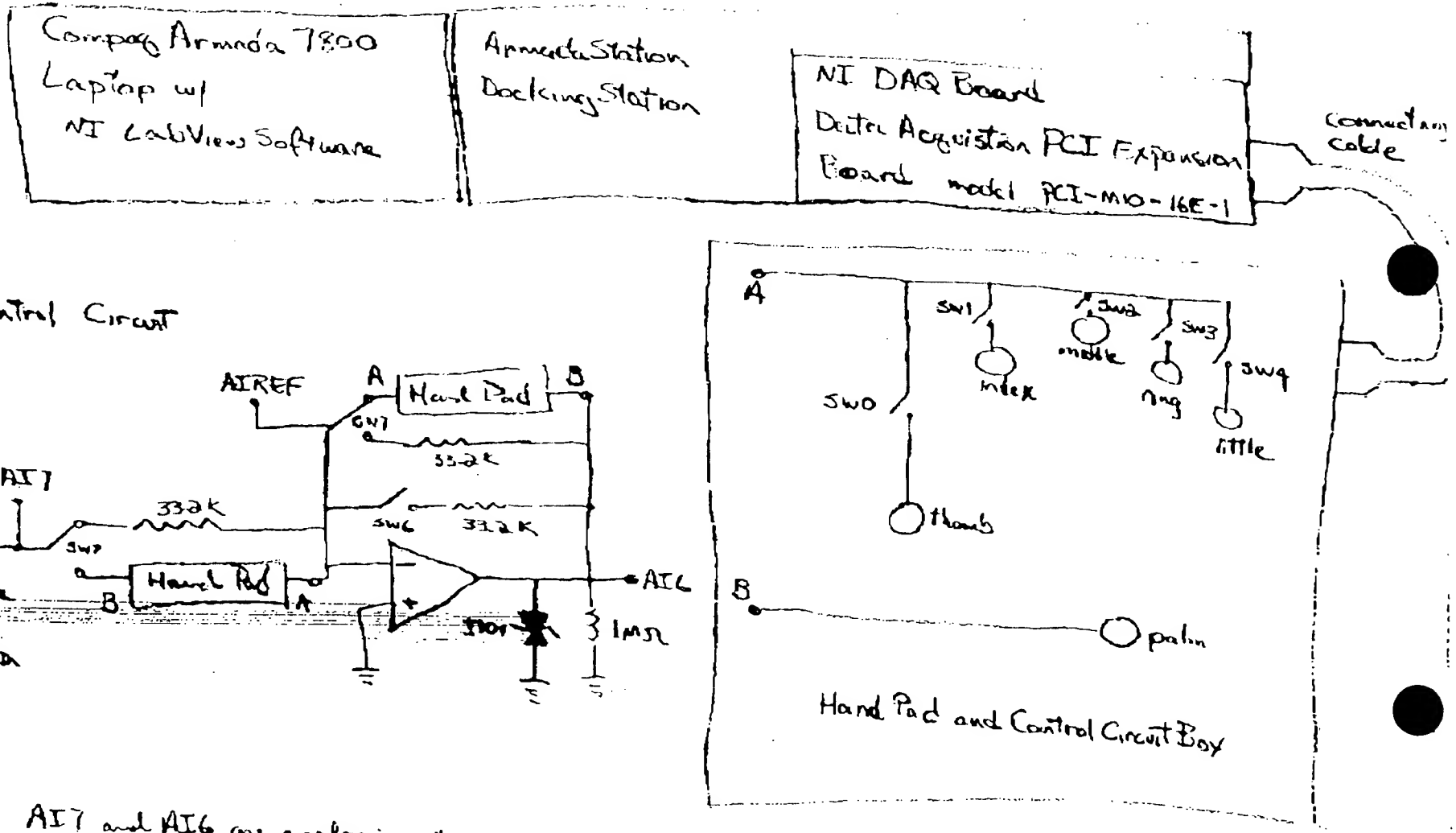


FIG 197

Reader Unit Attached to Felon's Telephone

US 6,054,928

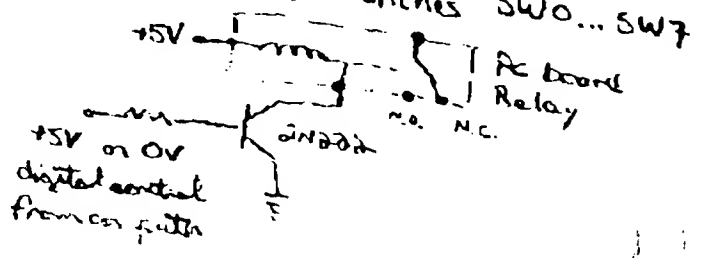
6651601 2T96260



AI7 and AI6 are analog inputs, measured wrt AIRef

FIG 198

Detail of Switches SW0 ... SW7



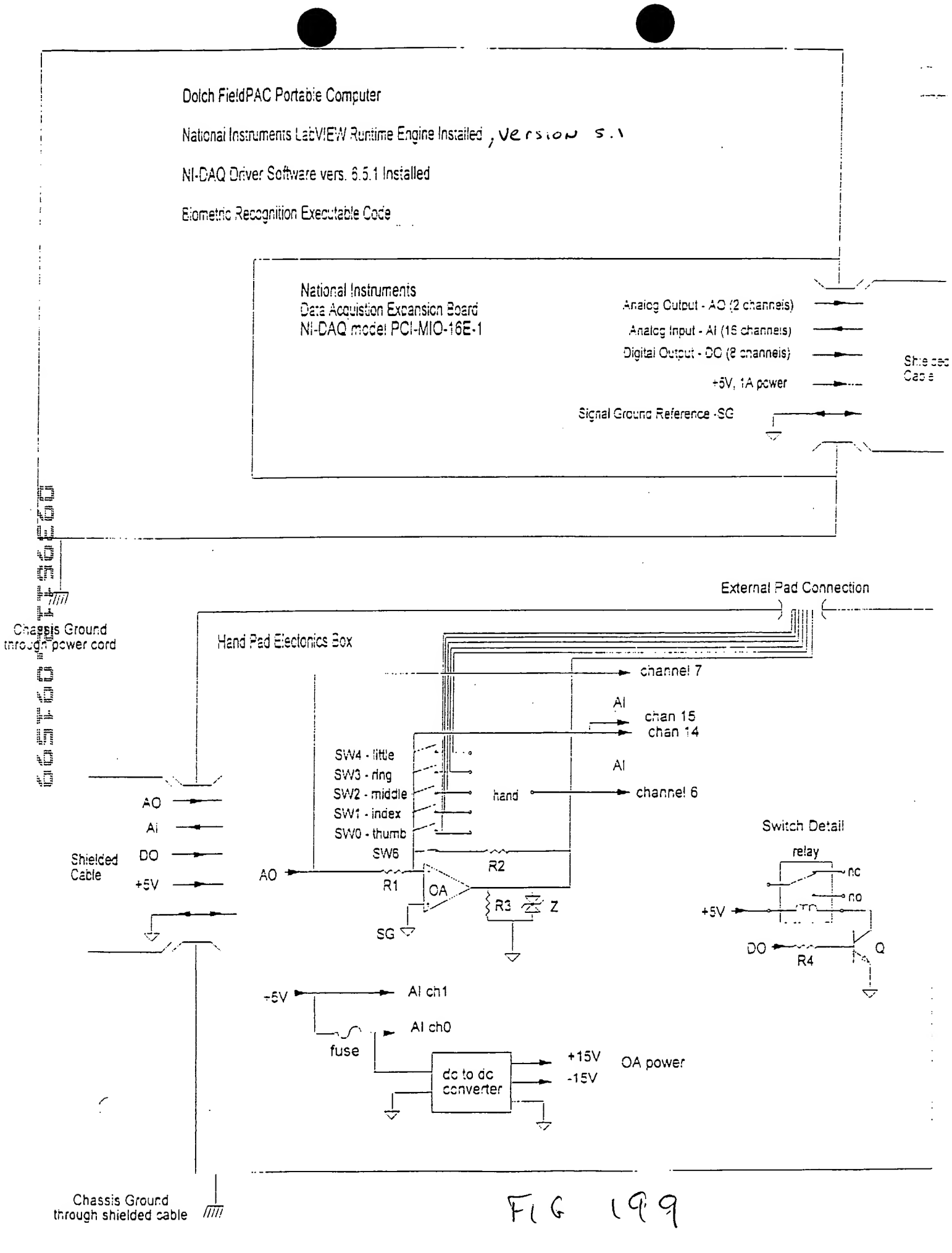

Dolch FieldPAC Portable Computer
National Instruments LabVIEW Runtime Engine Installed , version 5.1
NI-DAQ Driver Software vers. 6.5.1 Installed
Biometric Recognition Executable Code
National Instruments
Data Acquisition Expansion Board
NI-DAQ model PCI-MIO-16E-1
Analog Output - AO (2 channels)
Analog Input - AI (16 channels)
Digital Output - DO (8 channels)
+5V, 1A power
Signal Ground Reference -SG
Shielded Cable
Chassis Ground through power cord
External Pad Connection
Hand Pad Electonics Box
channel 7
AI
chan 15
chan 14
AI
channel 6
SW4 - little
SW3 - ring
SW2 - middle
SW1 - index
SW0 - thumb
SW6
hand
AO
AI
DO
+5V
Shielded Cable
AO
R1
OA
R2
R3
Z
SG
Switch Detail
relay
nc
no
+5V
DO
R4
Q
+5V
AI ch1
AI ch0
fuse
dc to dc converter
+15V
-15V
OA power
Chassis Ground through shielded cable

FIG 199

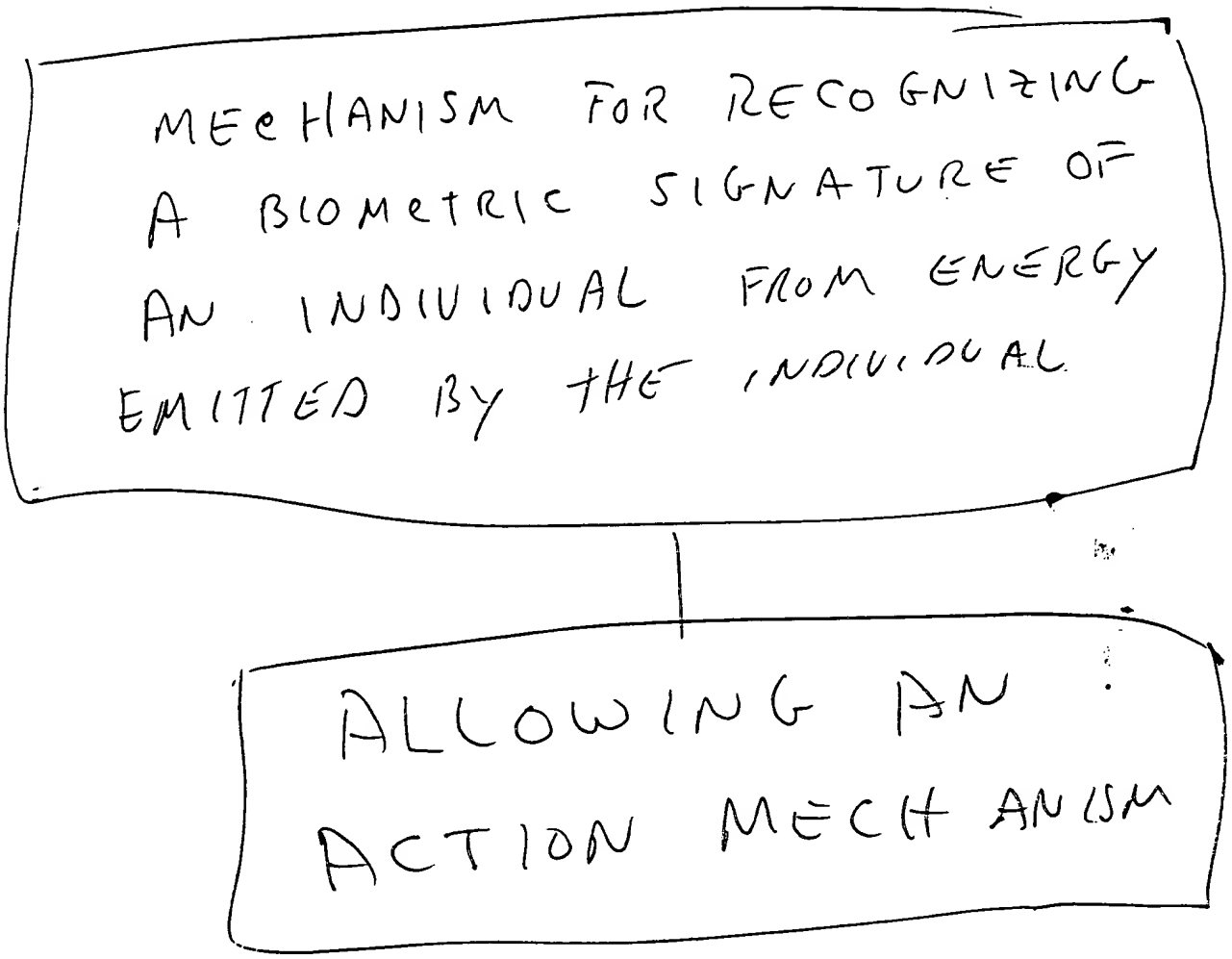
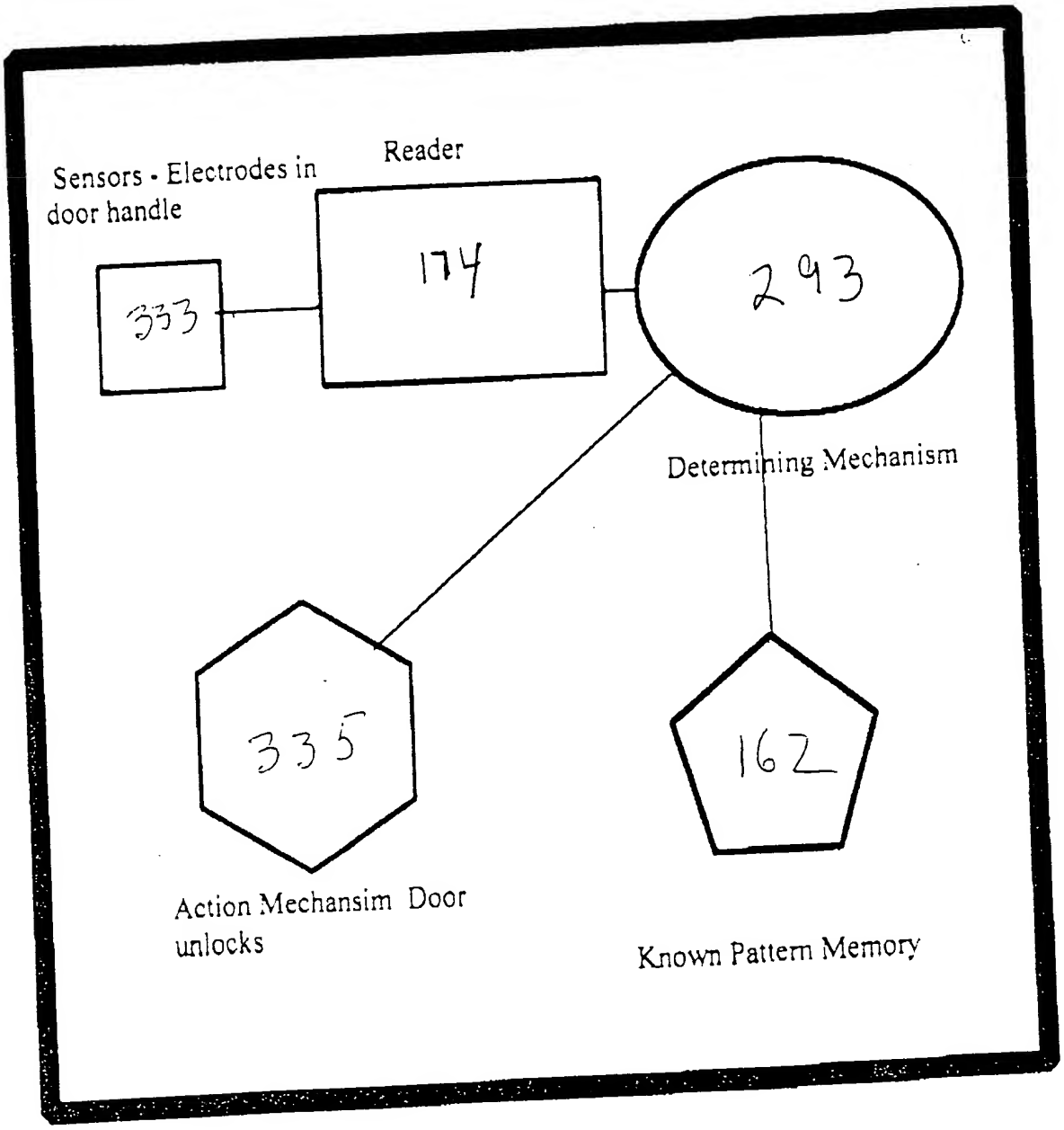

MECHANISM FOR RECOGNIZING A BIOMETRIC SIGNATURE OF AN INDIVIDUAL FROM ENERGY EMITTED BY THE INDIVIDUAL
ALLOWING AN ACTION MECHANISM

FIG 200.

- Discrete Biometric Lock



Biometric Door Handle

FIG 201

Composite Biometric Lock

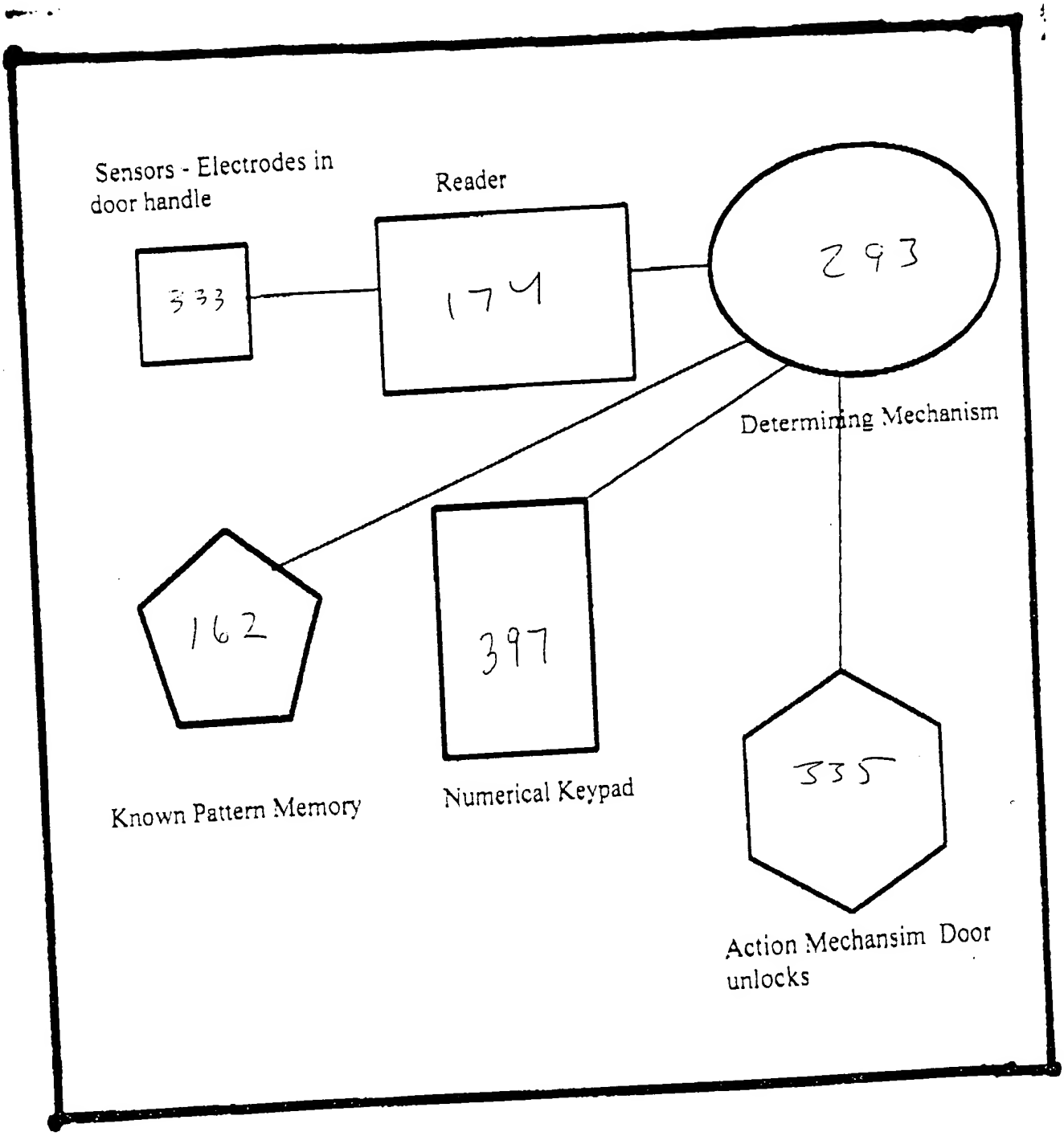


FIG 202

Multiple Biometric Lock

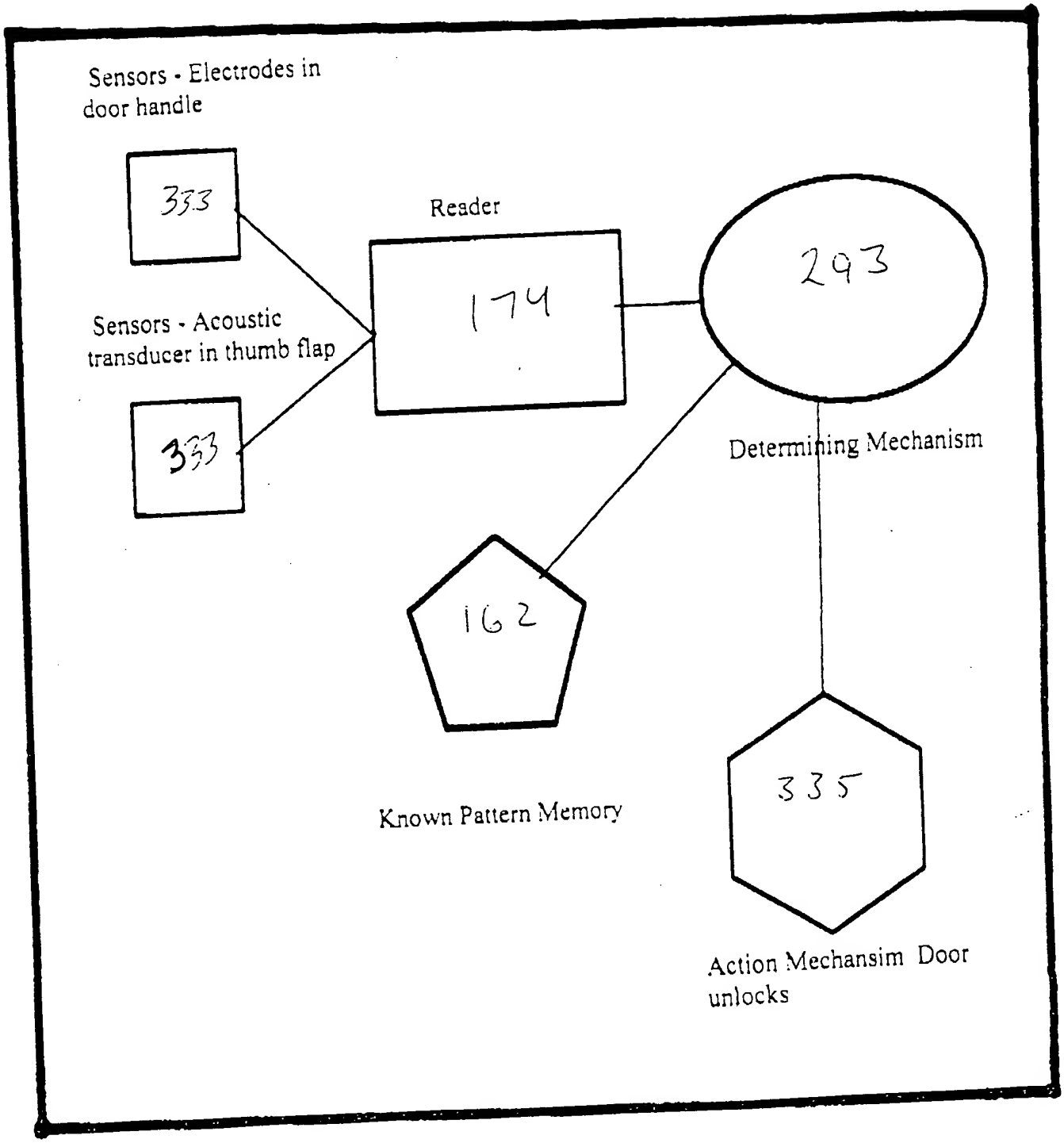


FIG 203

Composite Multiple Biometric Lock

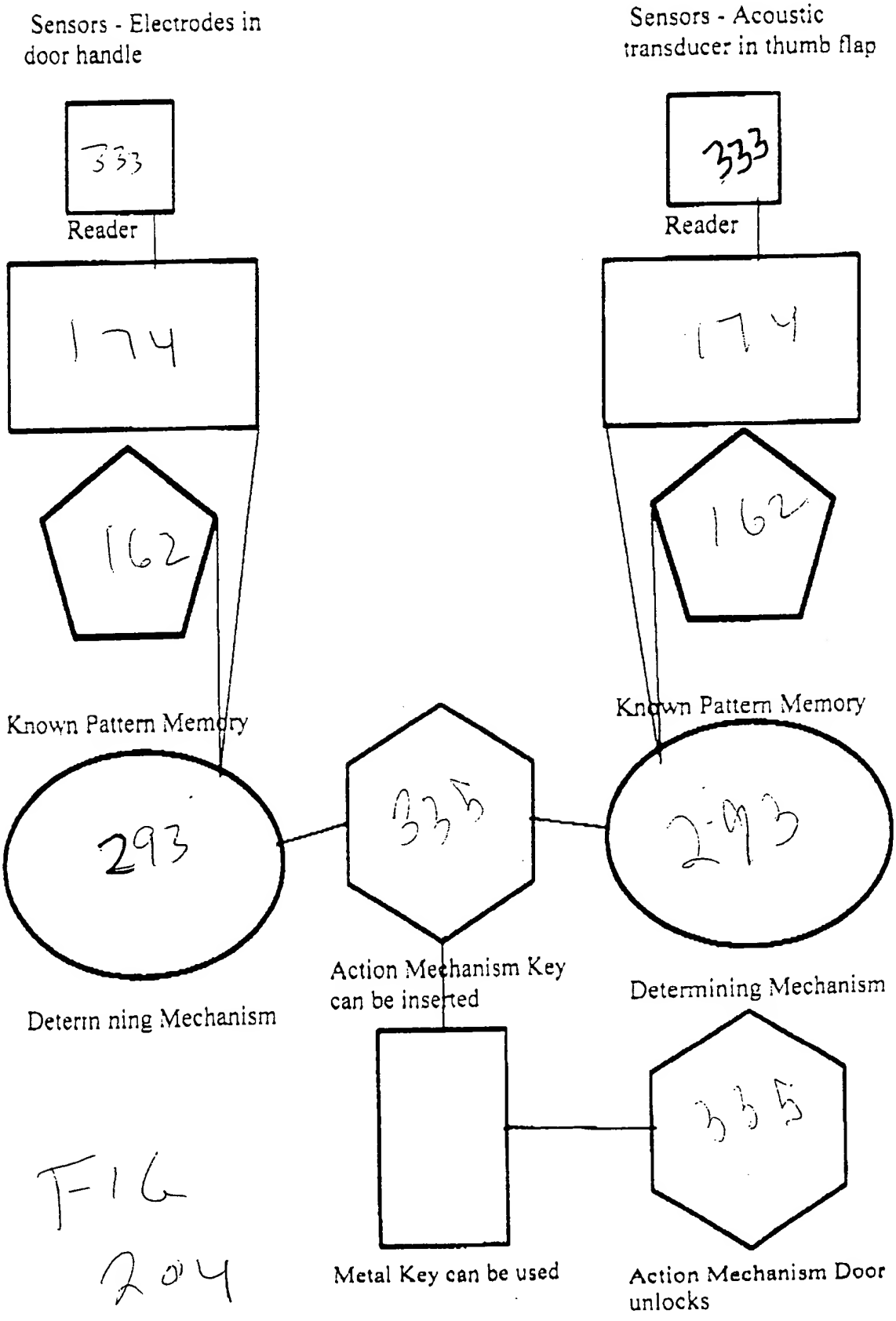


FIG 204

- Optional Multiple Biometric Lock

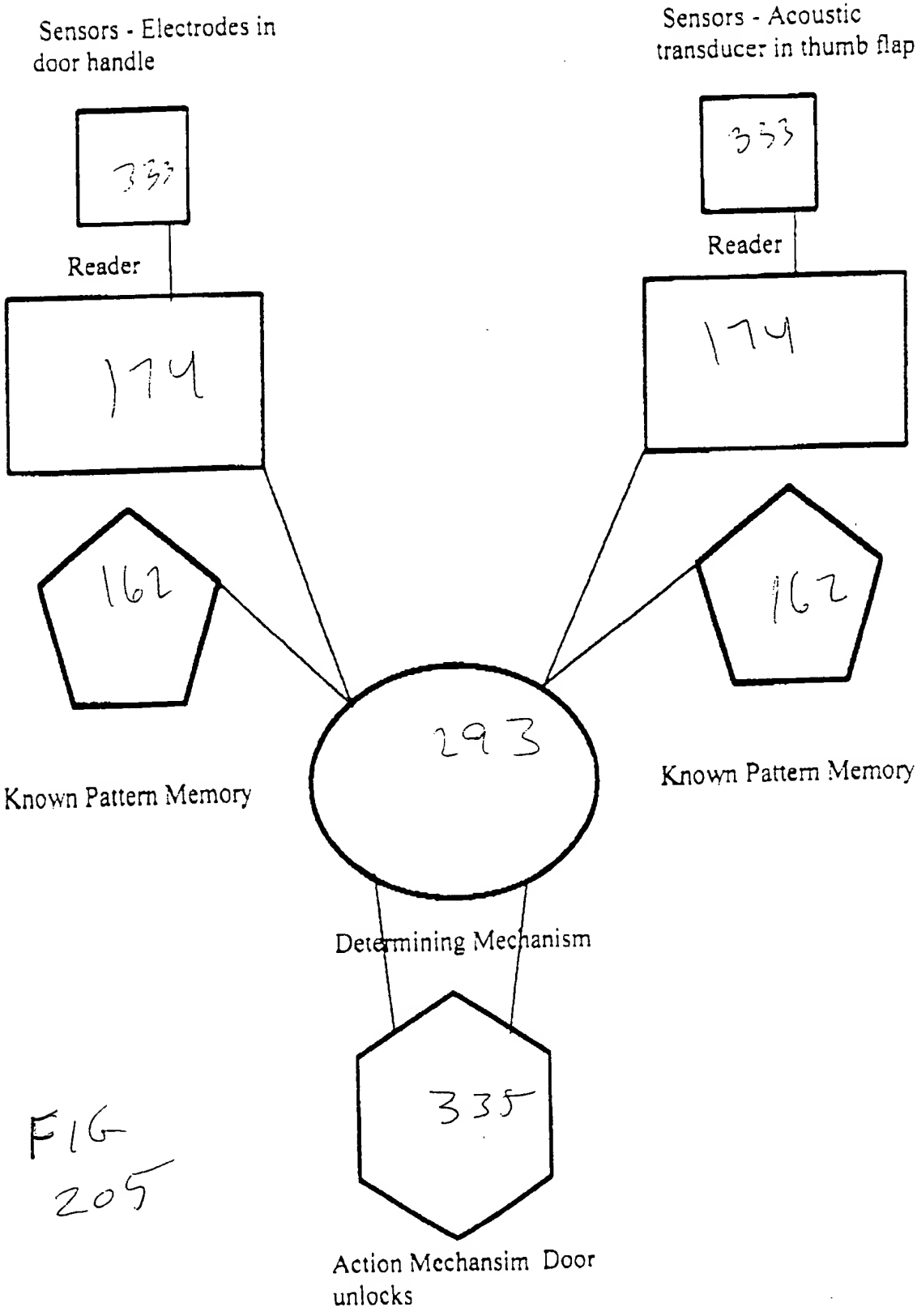
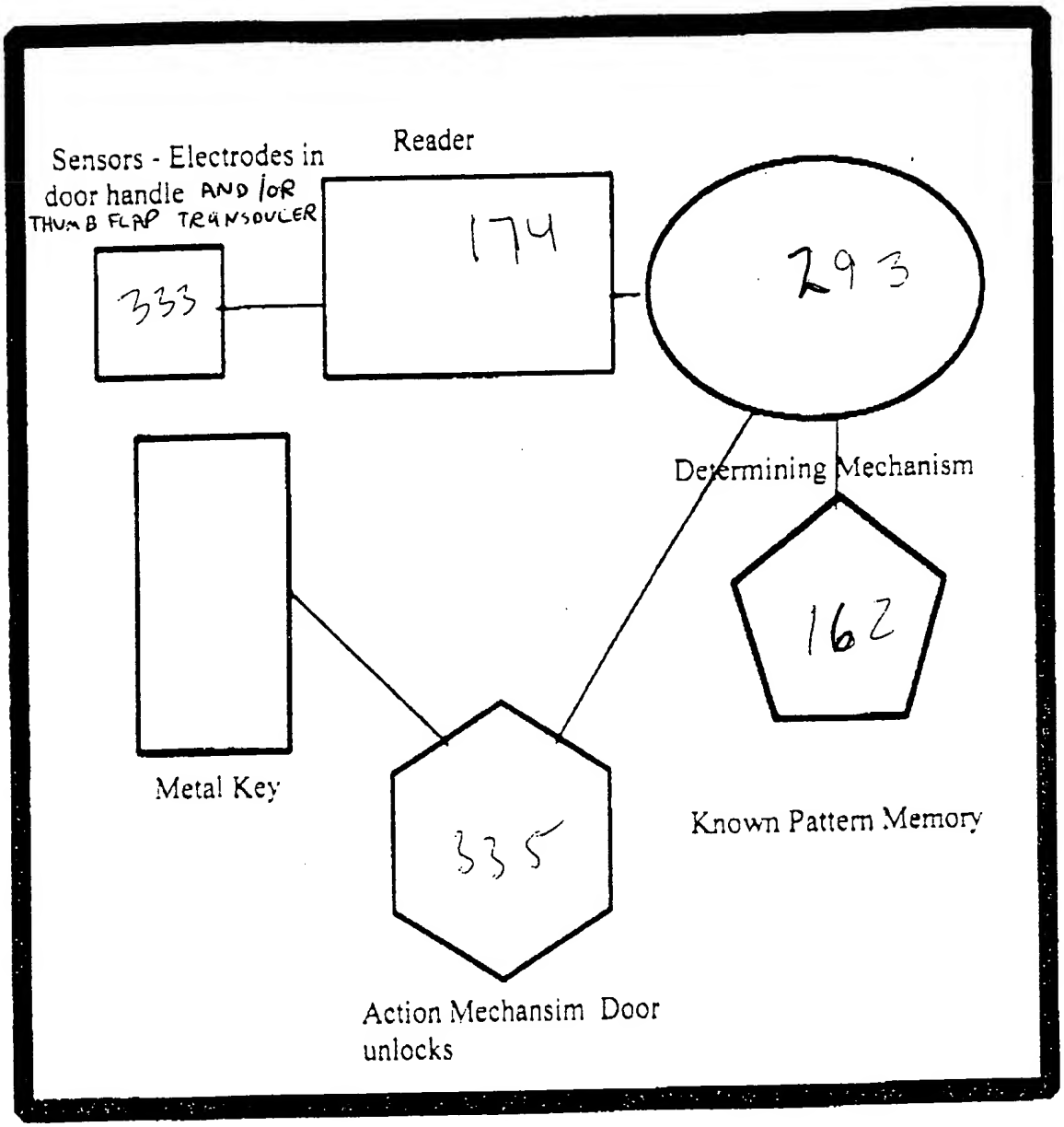


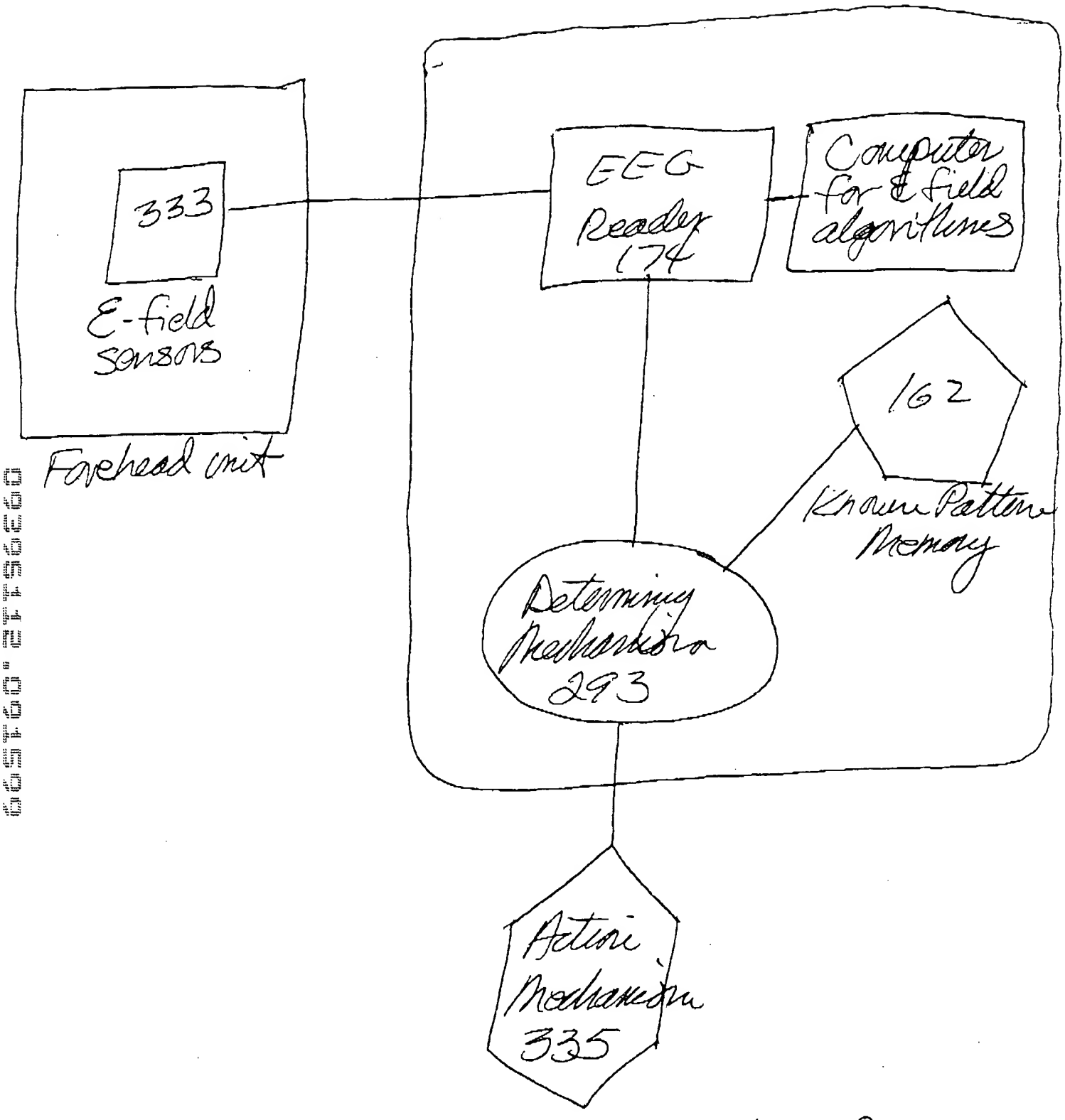
FIG 205

Optional Composite Biometric Lock



Biometric Door Handle

FIG 206



Recognizing a biometric signature from brain signals emitted by an individual

FIG 207

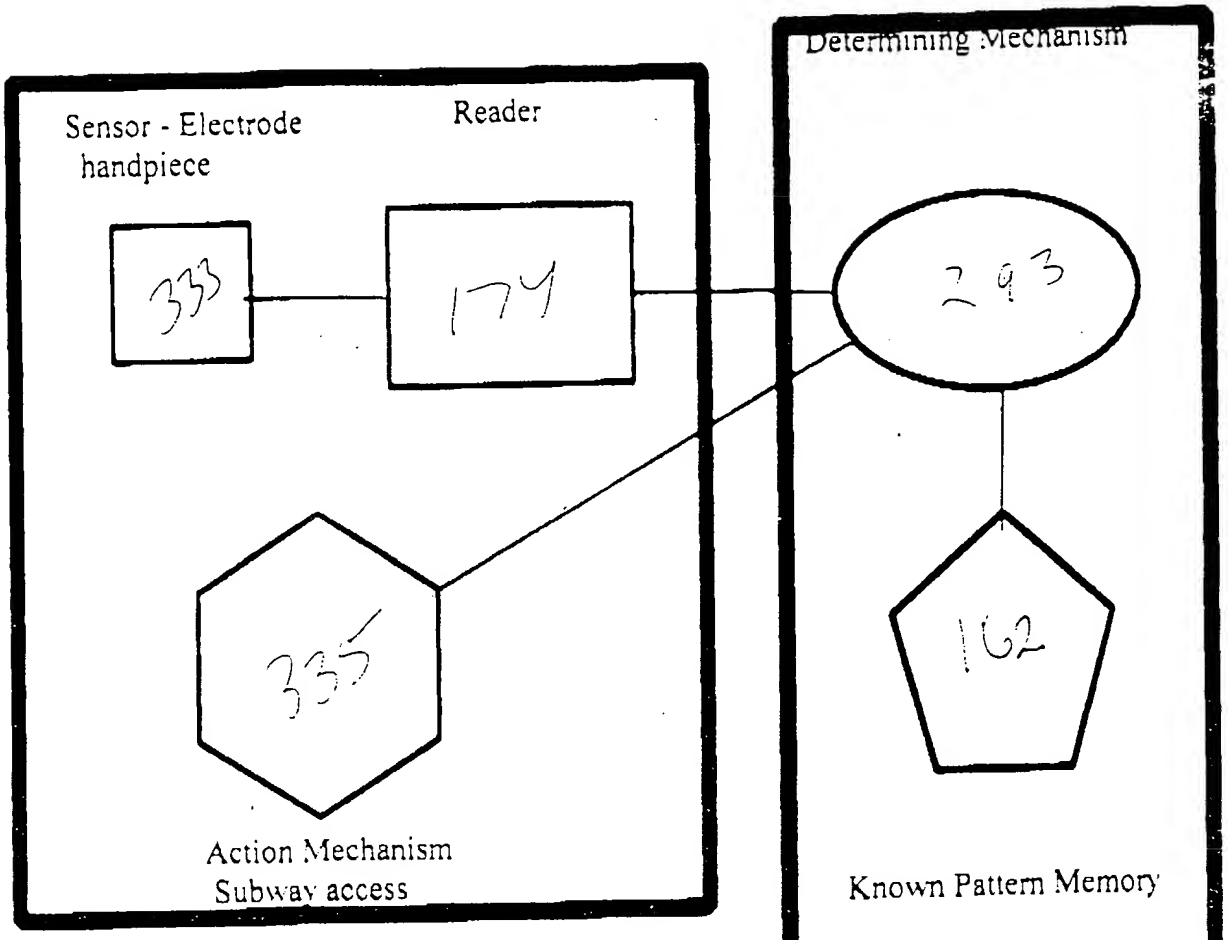

Determining Mechanism
Sensor - Electrode handpiece
Reader
333
174
293
335
162
Action Mechanism
Subway access
Known Pattern Memory
Subway Handpiece
Subway Computer
158

FIG 127

Windshield Unit

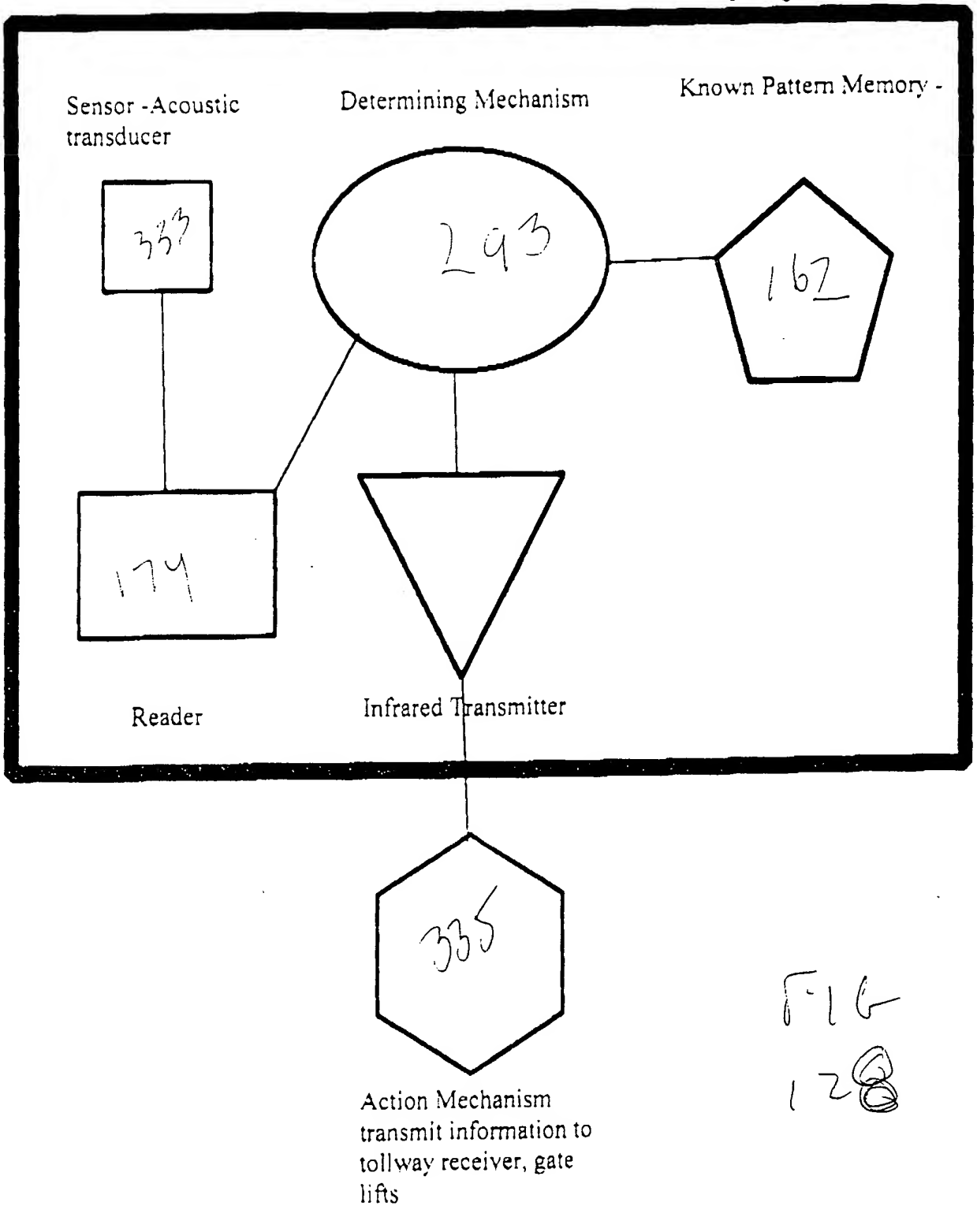


FIG 128

Contactless Smart Card Bus Unit

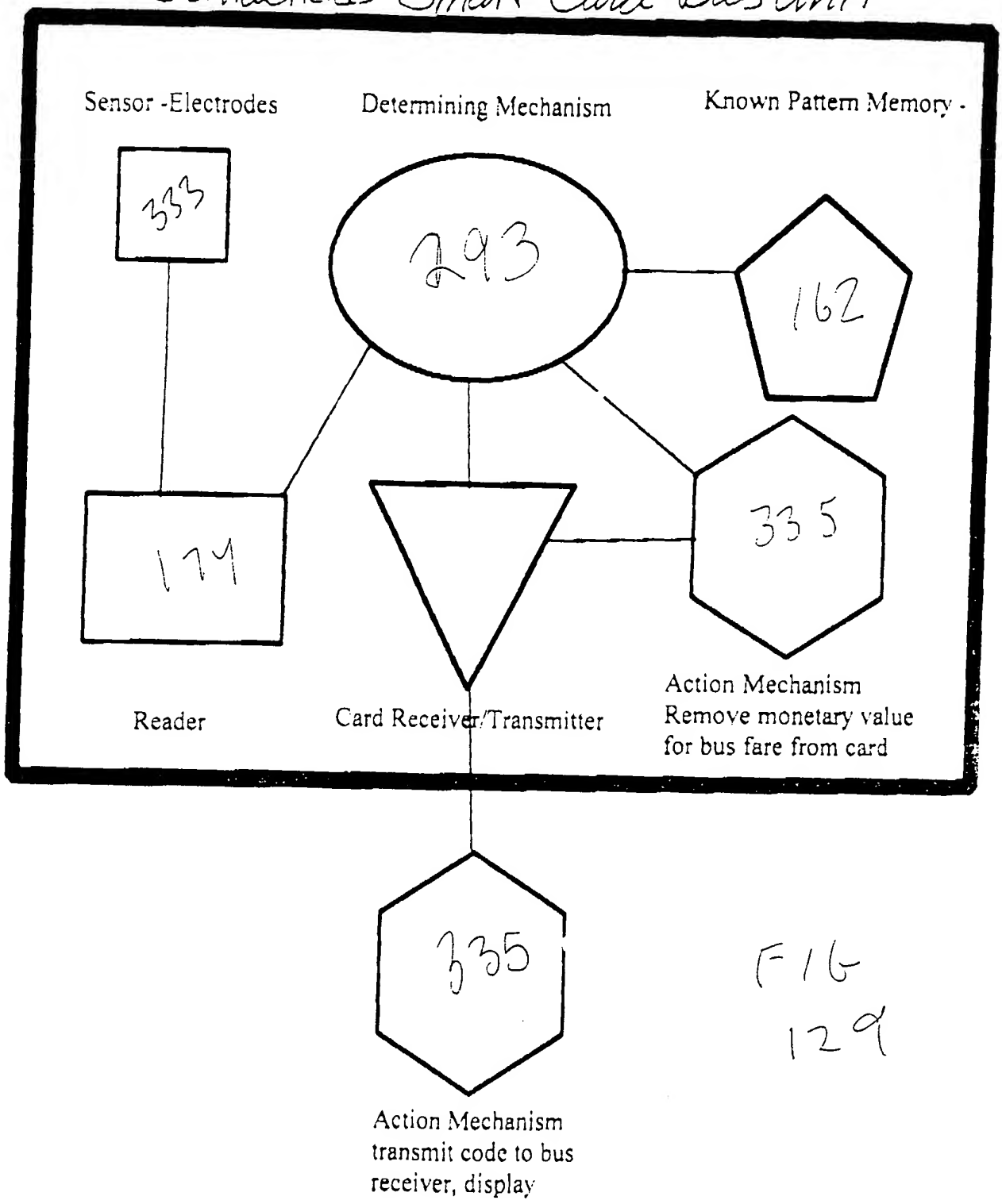
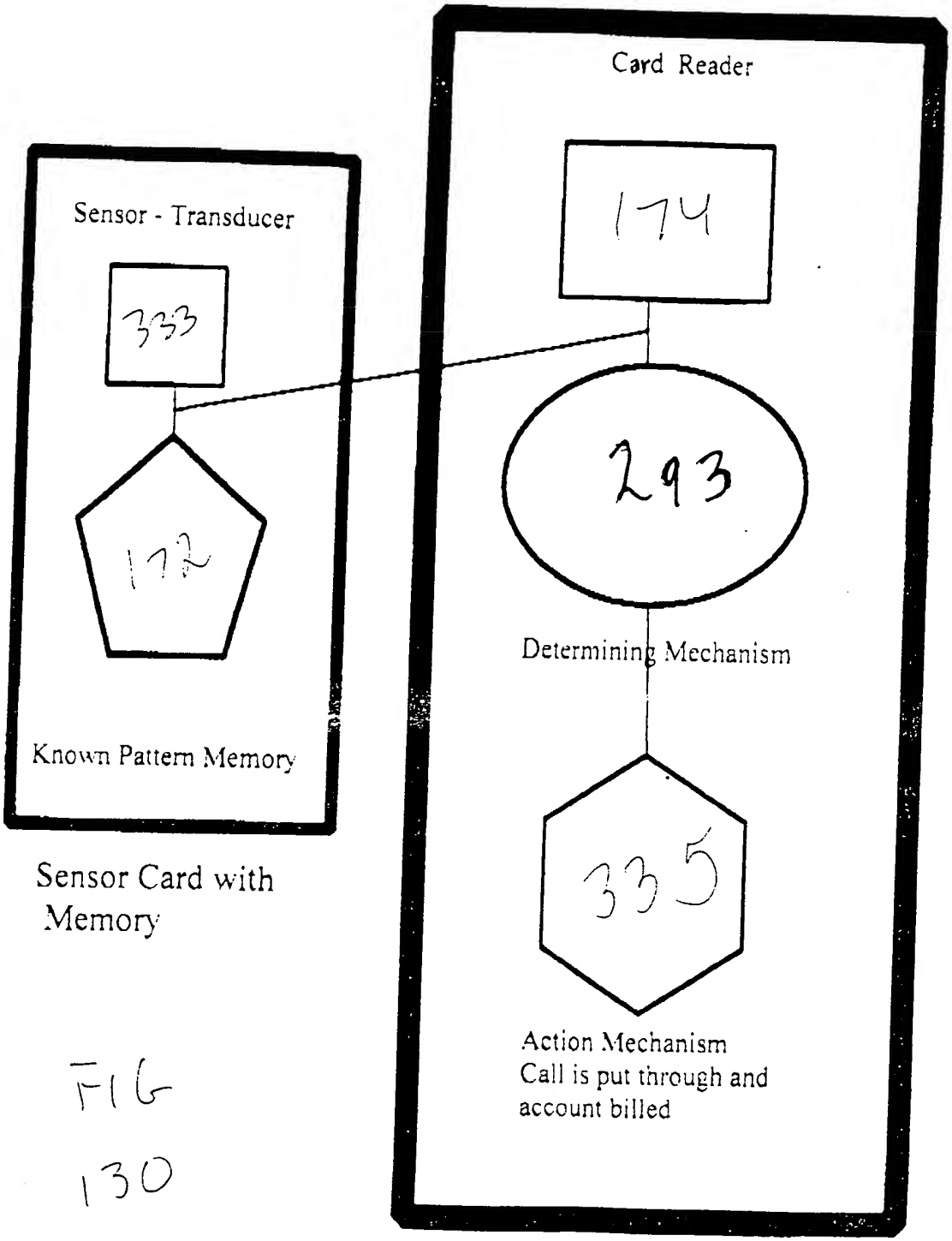


FIG 129

Payphone Card Reader Unit



Sensor Card with Memory

FIG 130

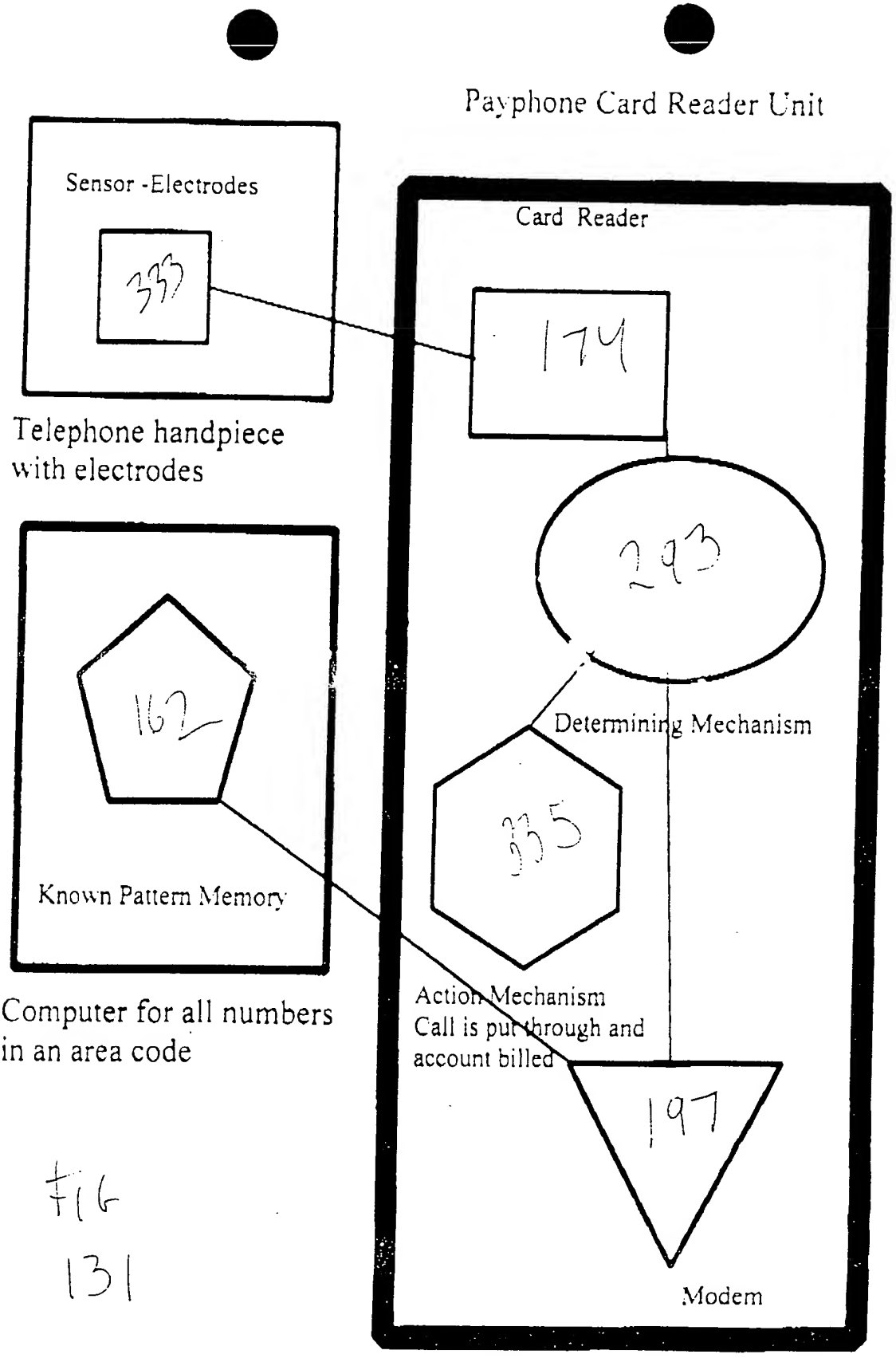

Payphone Card Reader Unit
Sensor -Electrodes
333
Telephone handpiece with electrodes
Card Reader
174
293
Determining Mechanism
335
Action Mechanism
Call is put through and account billed
197
Modem
162
Known Pattern Memory
Computer for all numbers in an area code

Fig 6

131

Electrode Telephone Handpiece

Side View

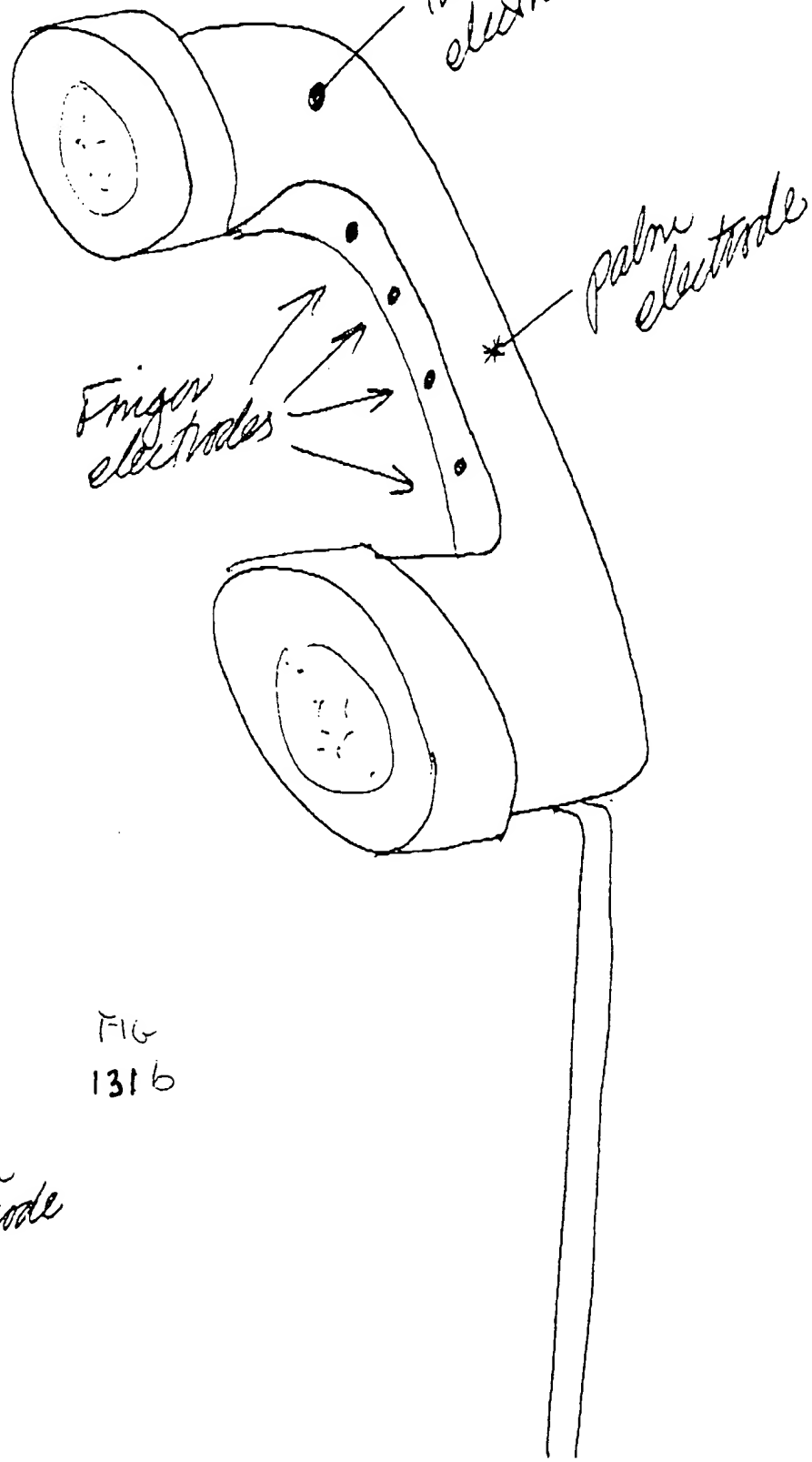


FIG 131a

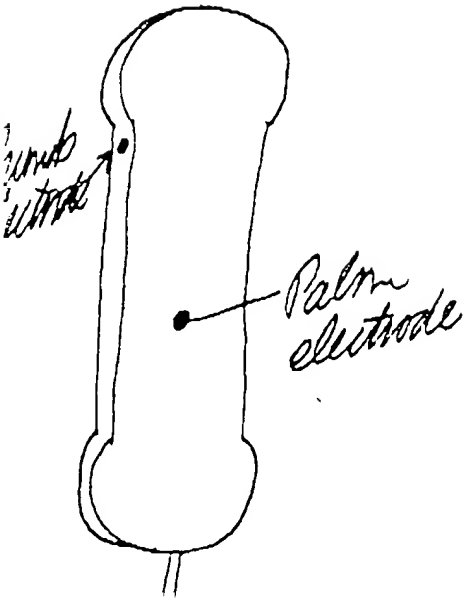
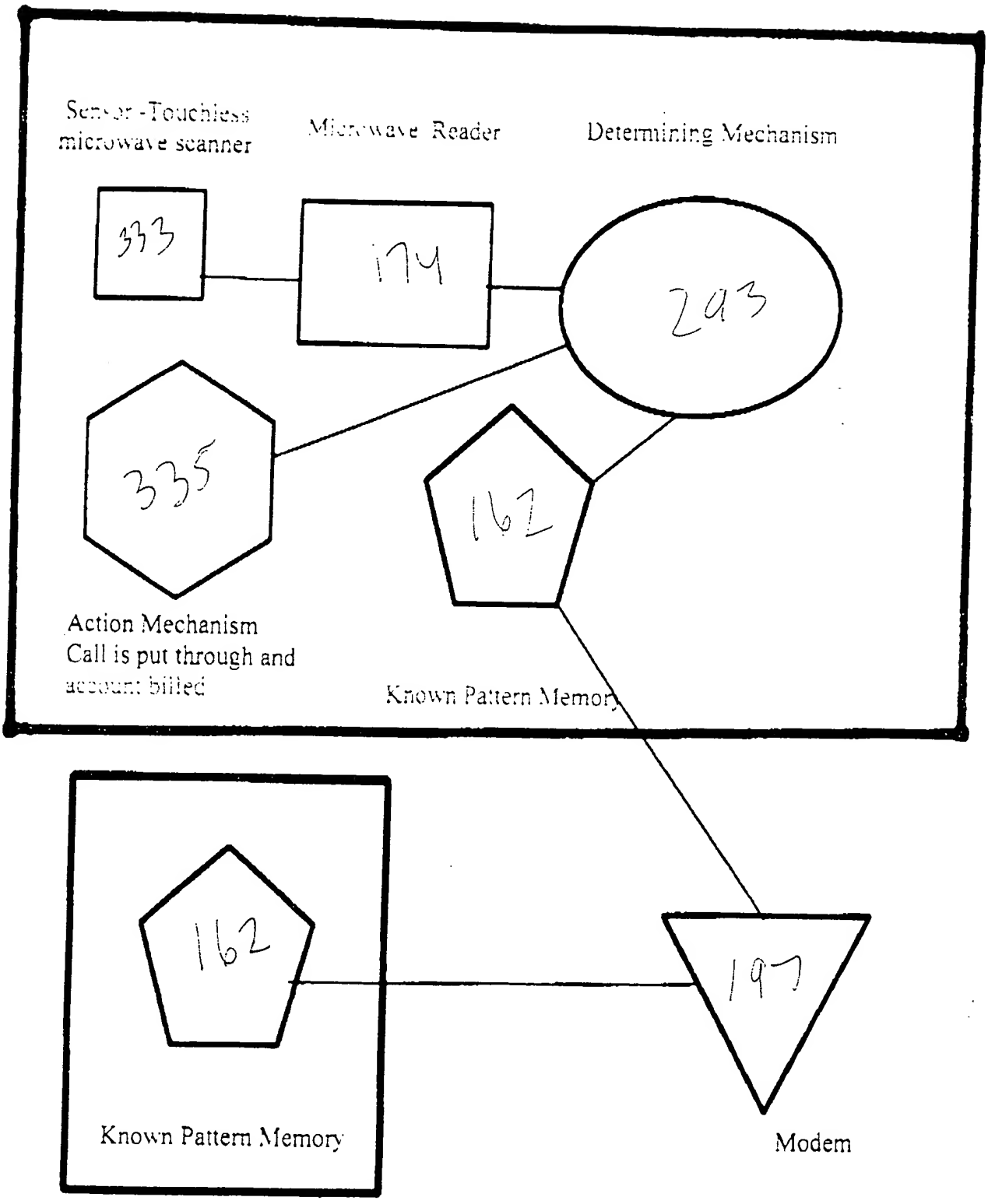


FIG 131b

SCANNED: 02/05/2003



Computer with master list of authorized biometric patterns

FIG 132

Touchless Payphone

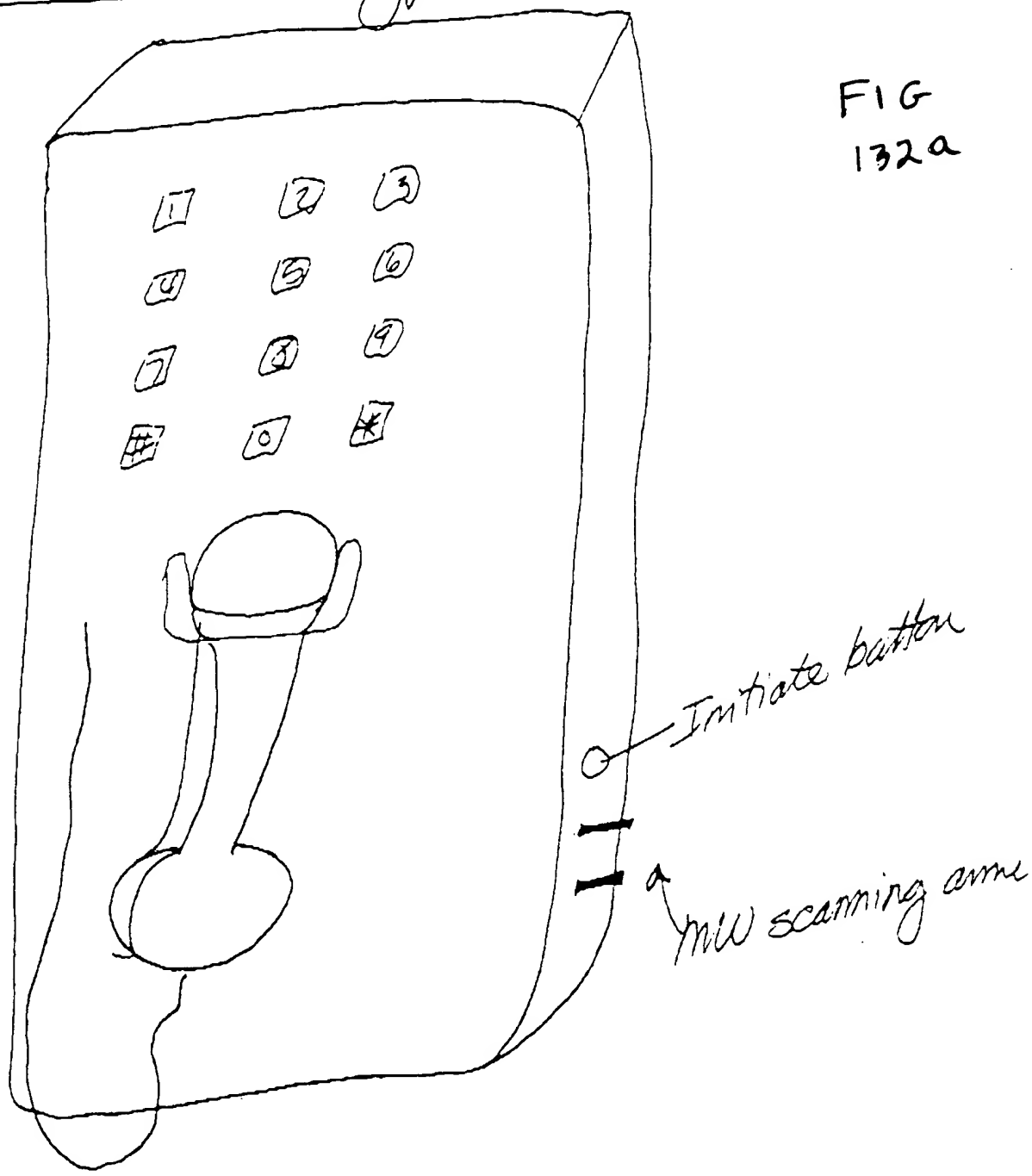


FIG 132a

Sprint Exhibit 2005

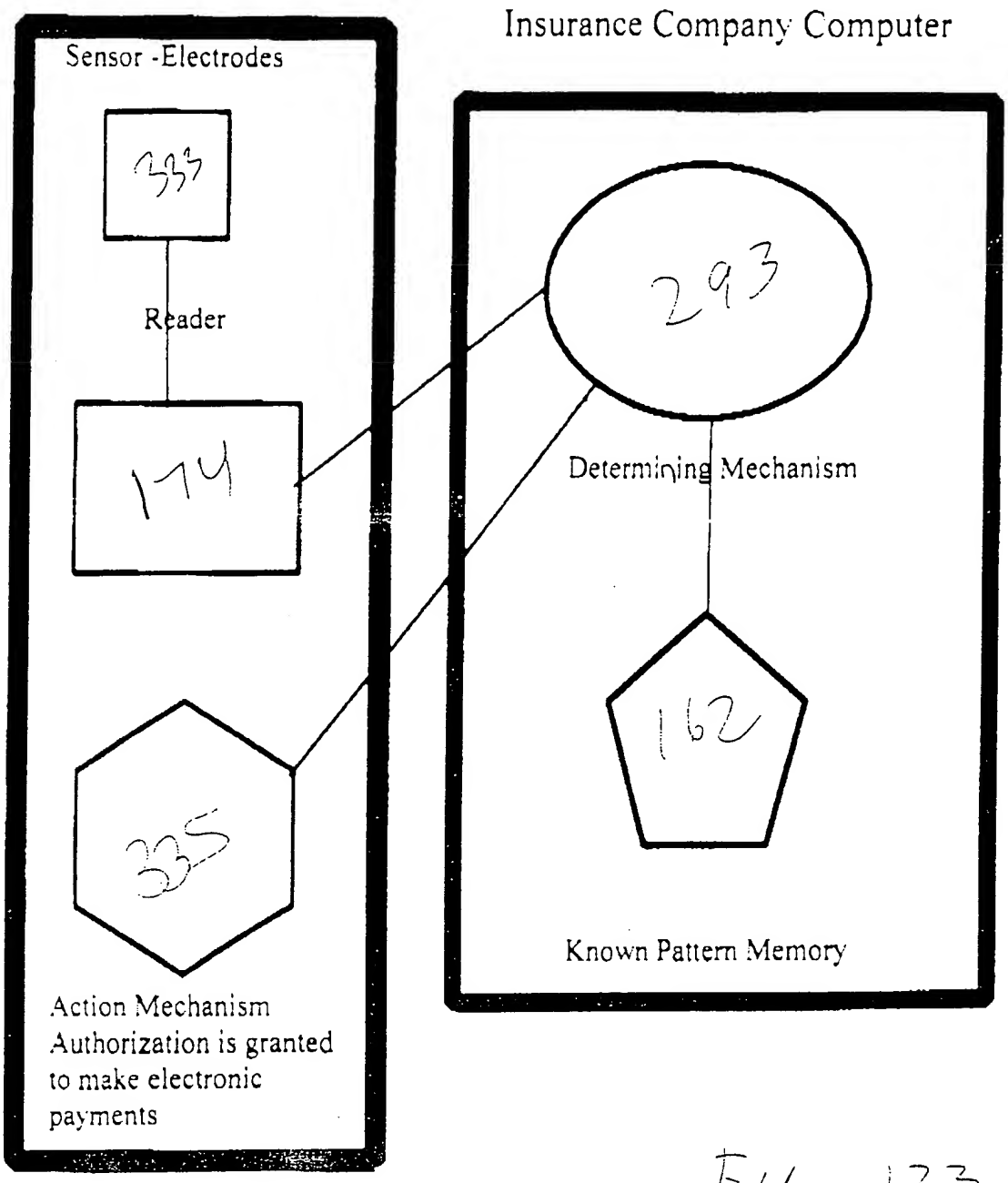


FIG 133

Electrode handpiece
with display

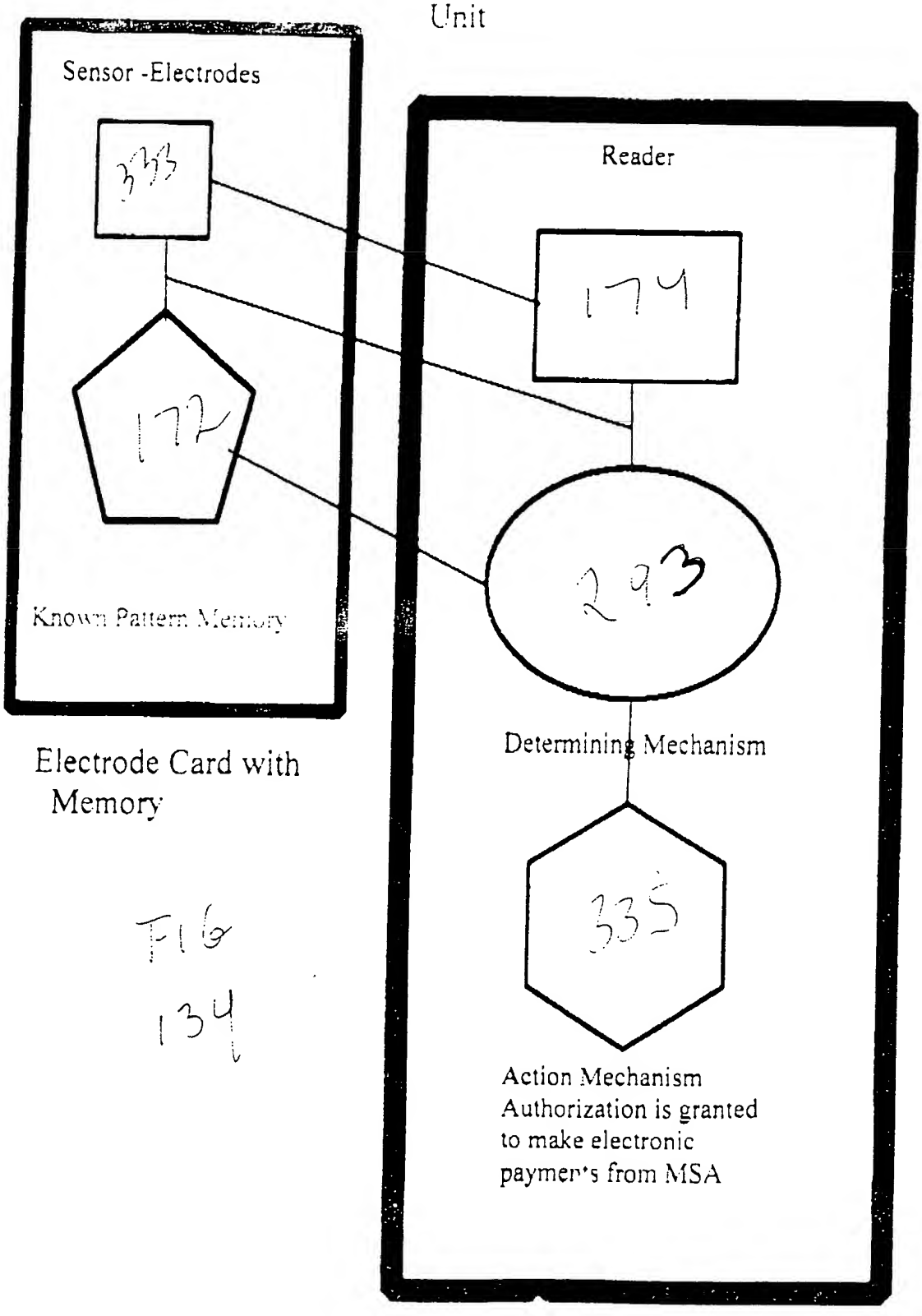

Emergency Room Reader Unit
Sensor -Electrodes
333
172
Known Pattern Memory
Electrode Card with Memory
Reader
174
293
Determining Mechanism
335
Action Mechanism Authorization is granted to make electronic payments from MSA

FIG 1

134

P

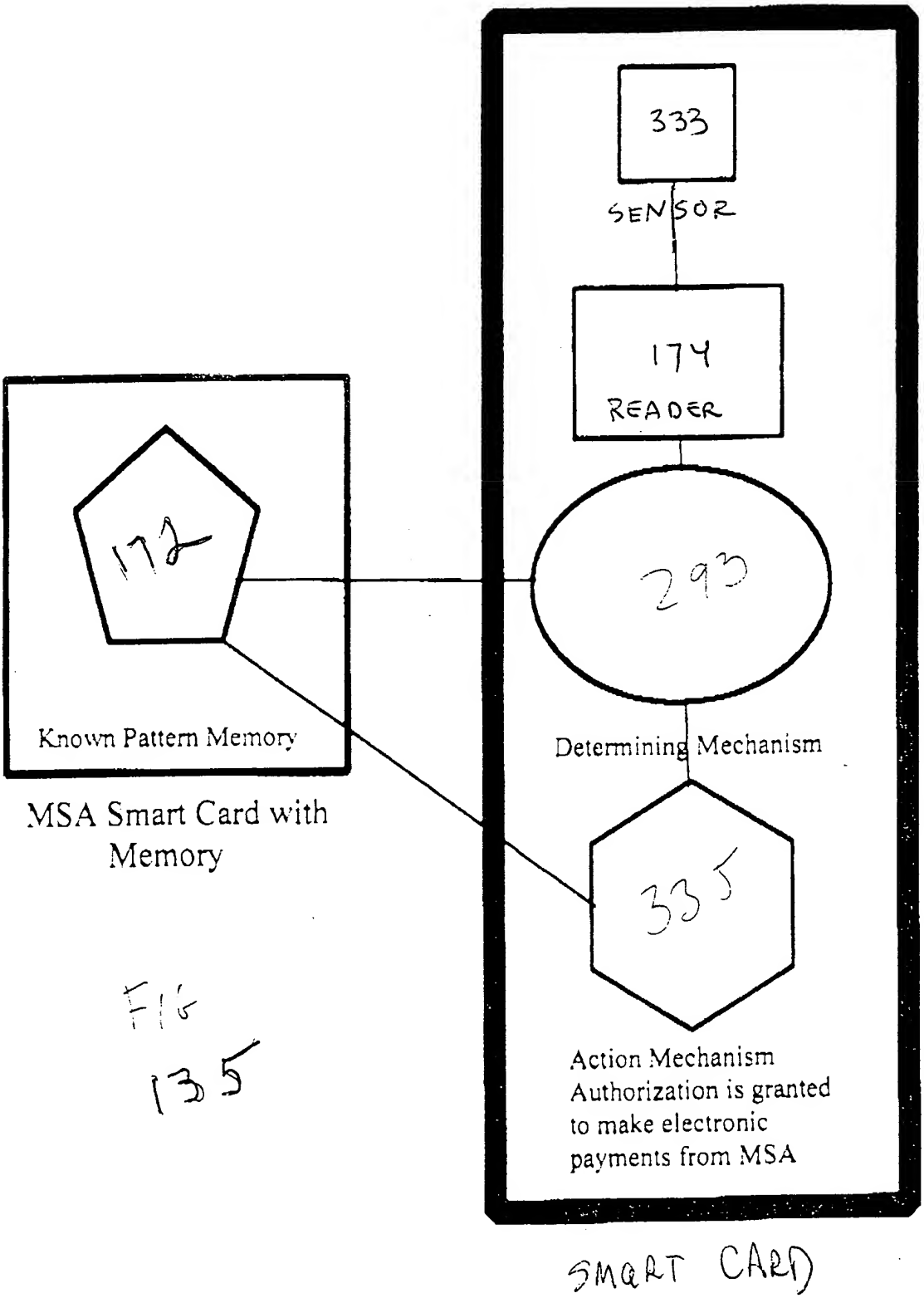

333
SENSOR
174
READER
172
293
Known Pattern Memory
Determining Mechanism
335
Action Mechanism
Authorization is granted
to make electronic
payments from MSA
MSA Smart Card with
Memory
SMART CARD

Fig
135

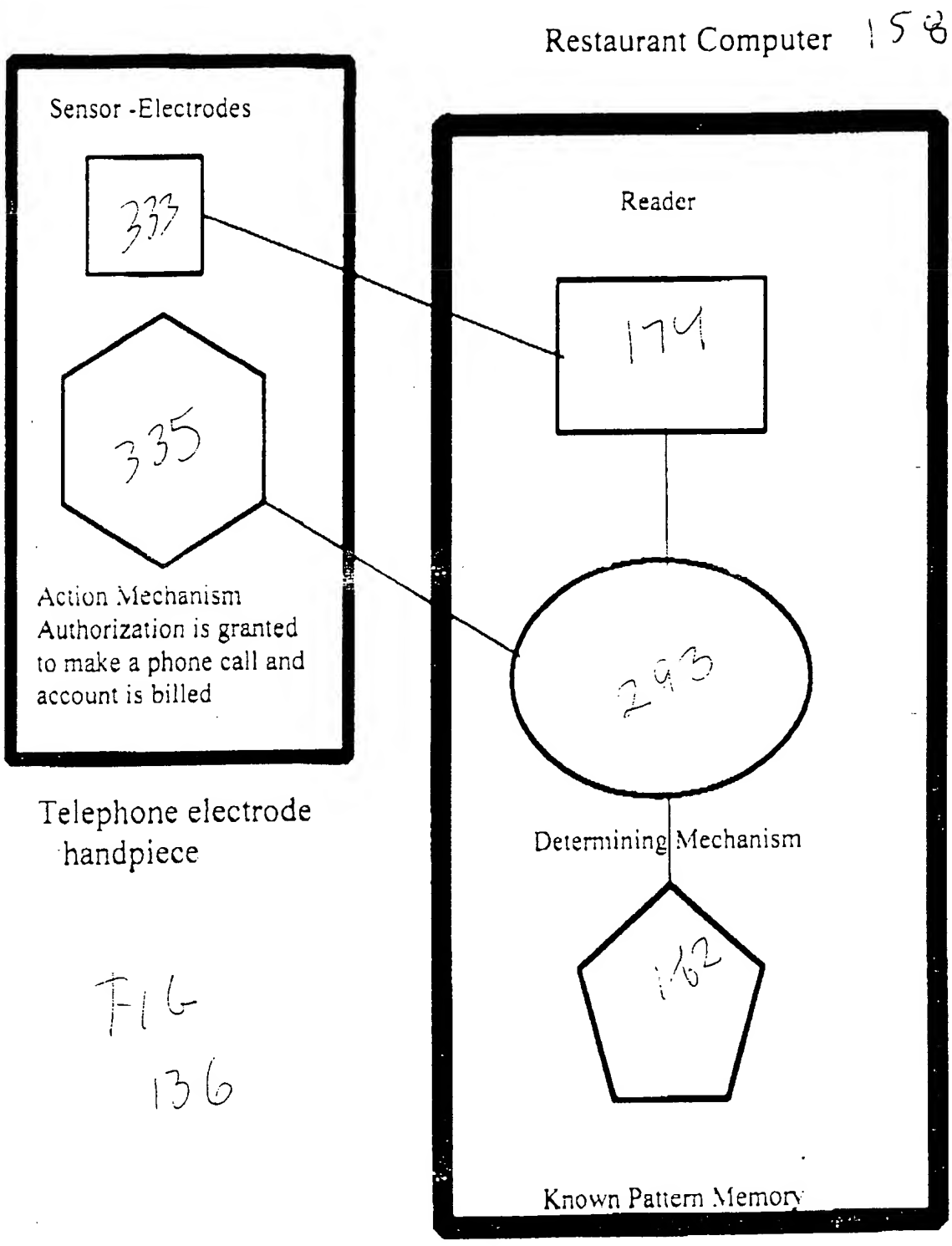

Restaurant Computer 158
Sensor -Electrodes
333
335
Action Mechanism
Authorization is granted to make a phone call and account is billed
Telephone electrode handpiece
Reader
174
293
Determining Mechanism
162
Known Pattern Memory

FIG 136

Portable Video-phone

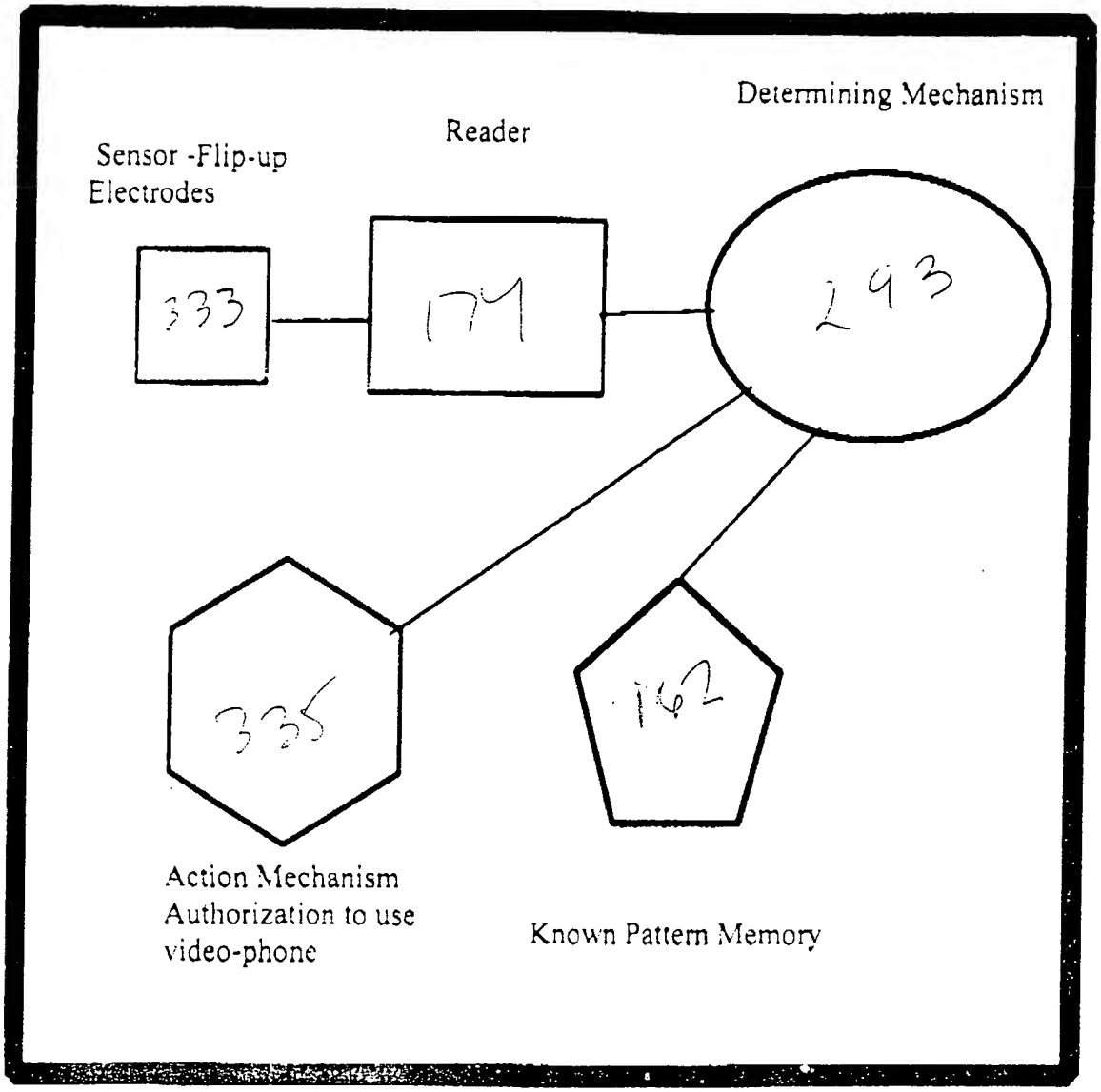
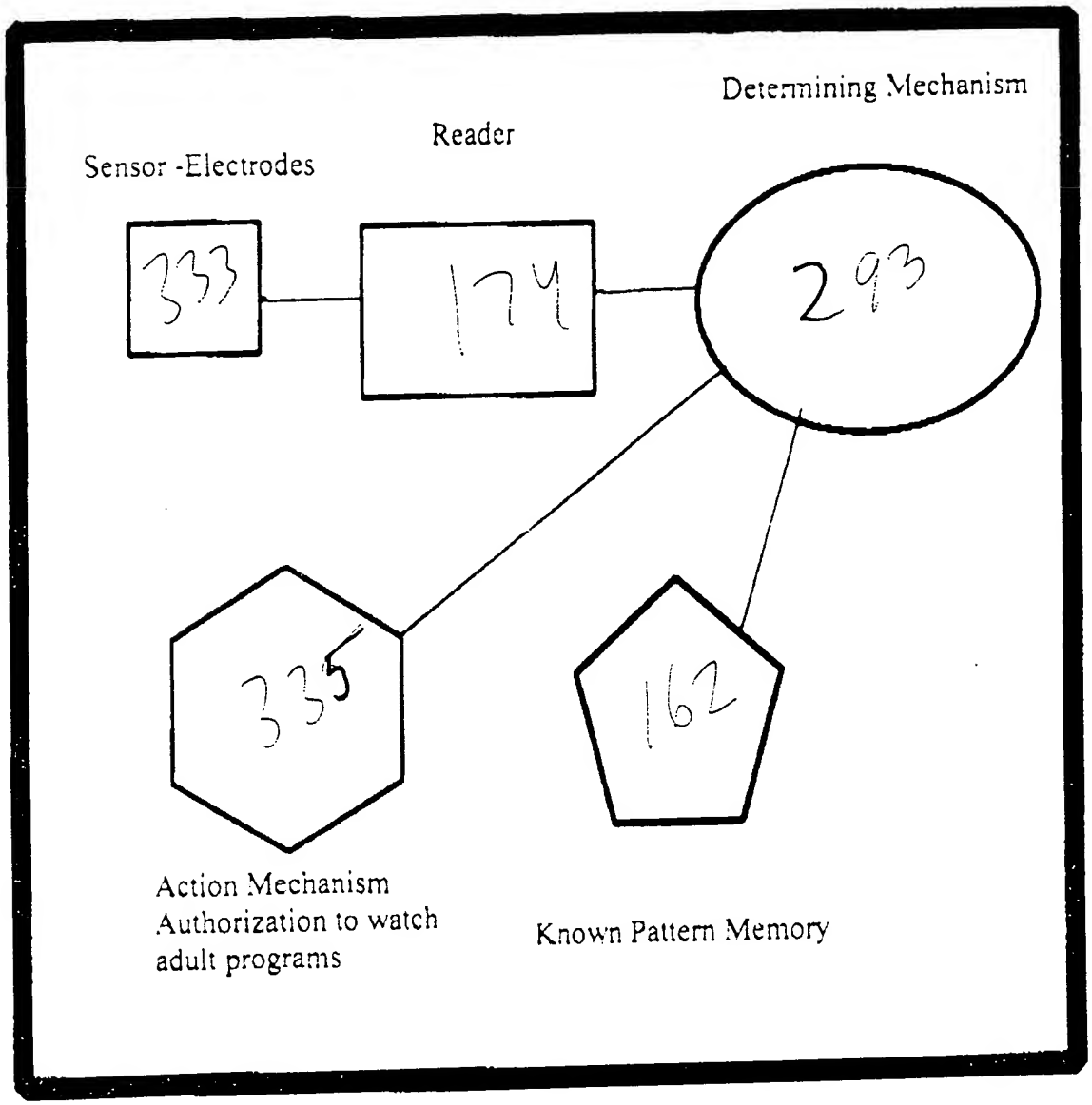


FIG 137

Television Handpiece Unit

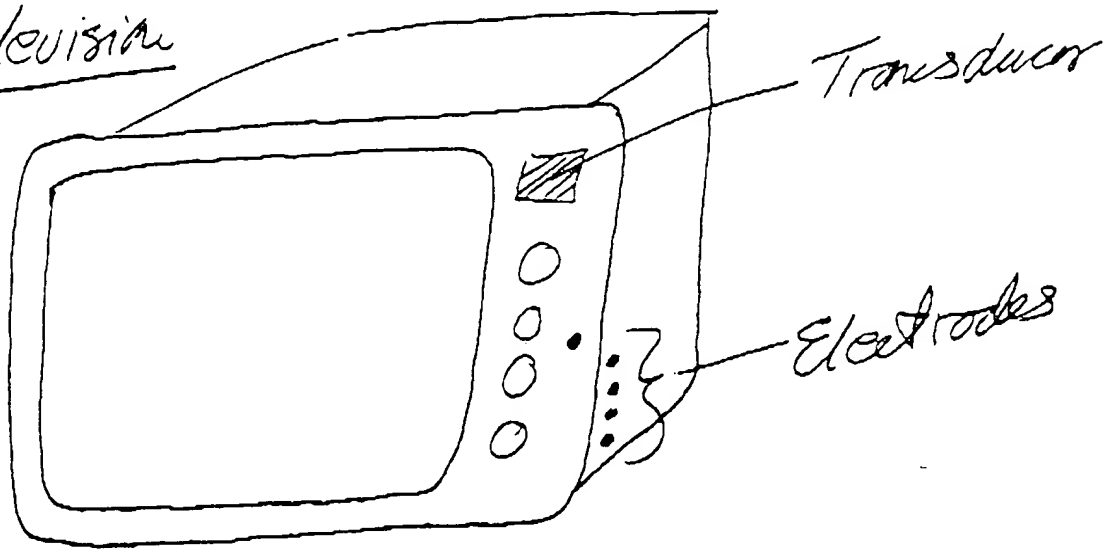


F16 138

Biometric Lock on Electronics

Fig 138a

Television



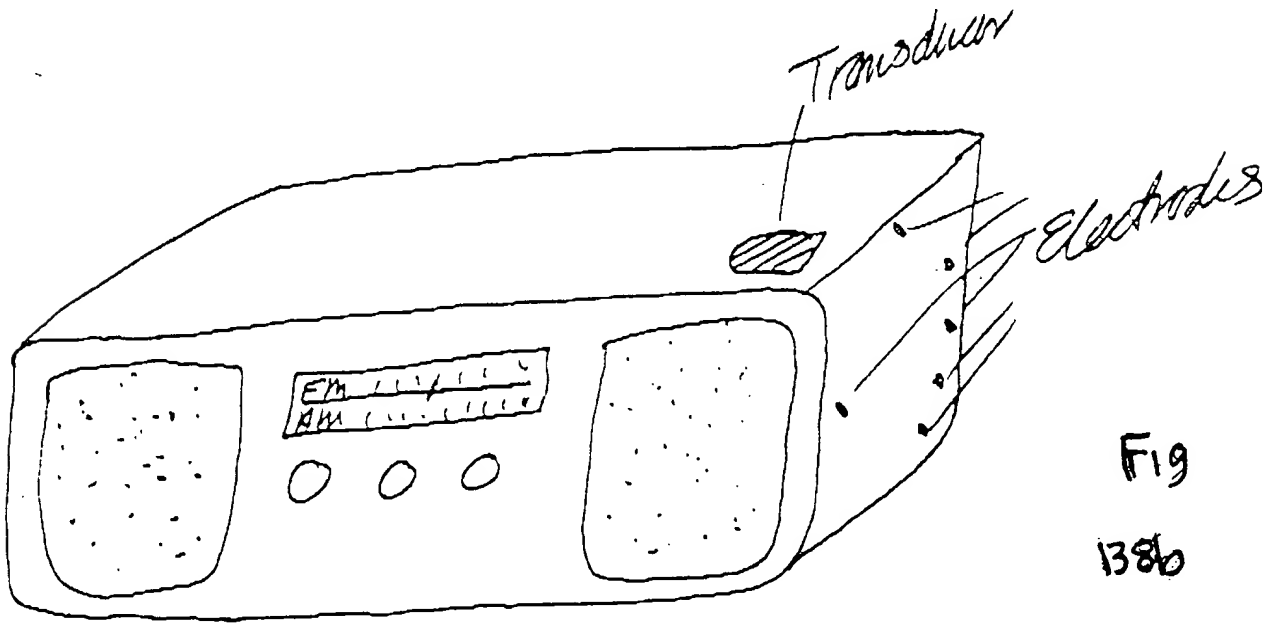


Fig 138b

Radio

Document ID: 20170504150

FIG 1

139

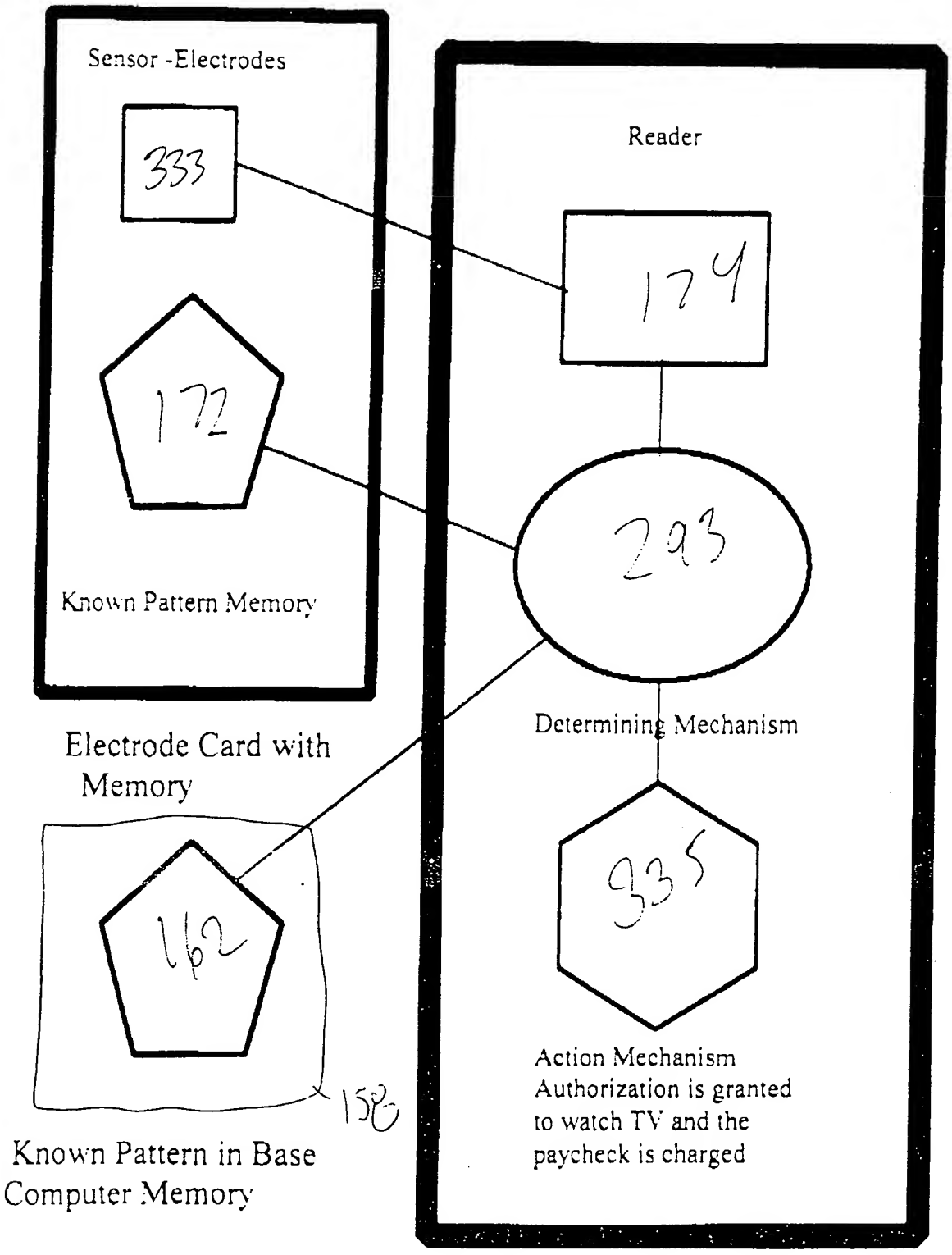

Pay TV Reader Unit
Sensor -Electrodes
333
172
Known Pattern Memory
Reader
174
293
Determining Mechanism
335
Action Mechanism
Authorization is granted
to watch TV and the
paycheck is charged
Electrode Card with
Memory
162
152
Known Pattern in Base
Computer Memory

FIG 140

Pay TV Reader Unit

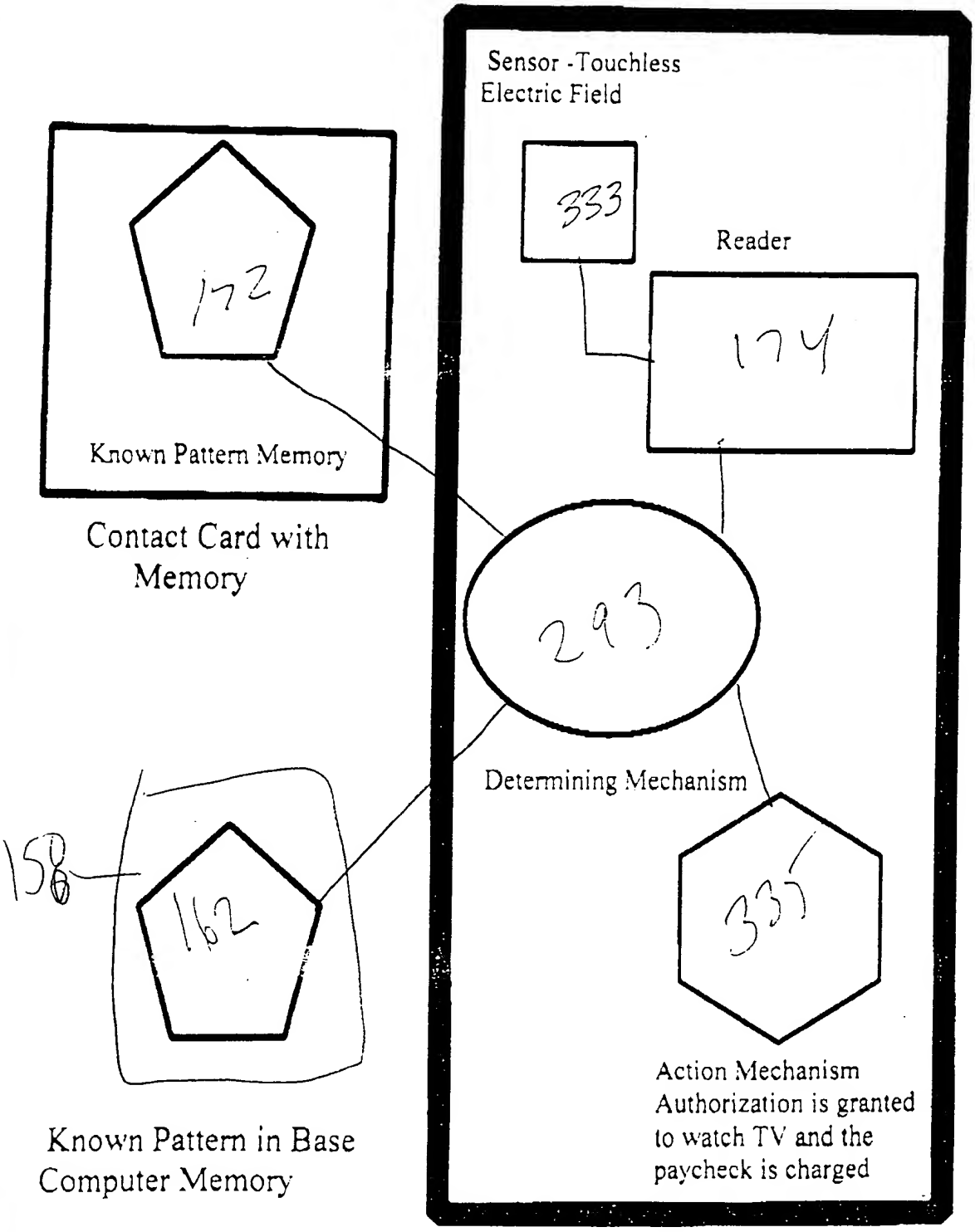


FIG 141

Airline Check-in Hand Unit

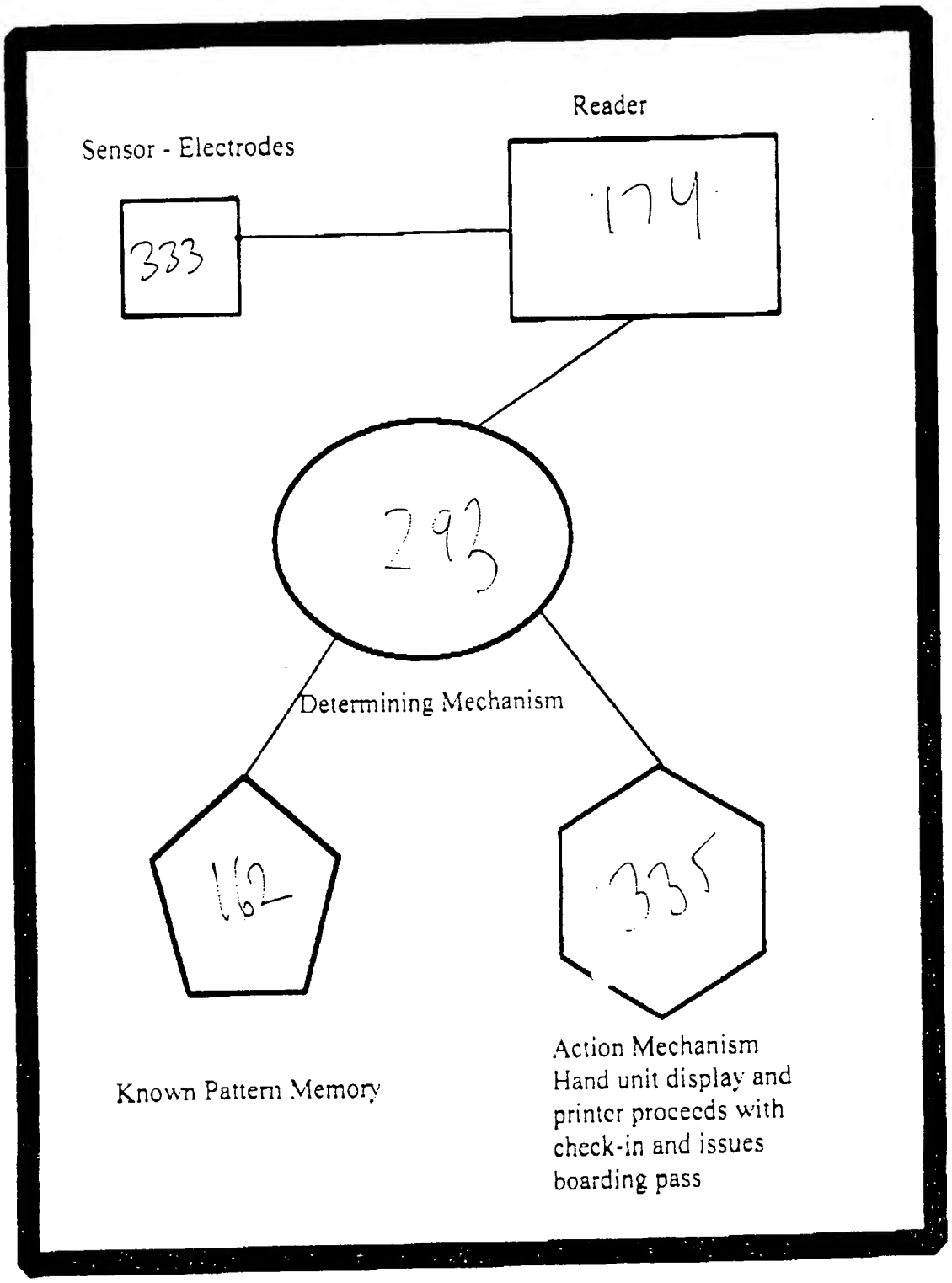


FIG
142

Airline Check-in Hand Unit

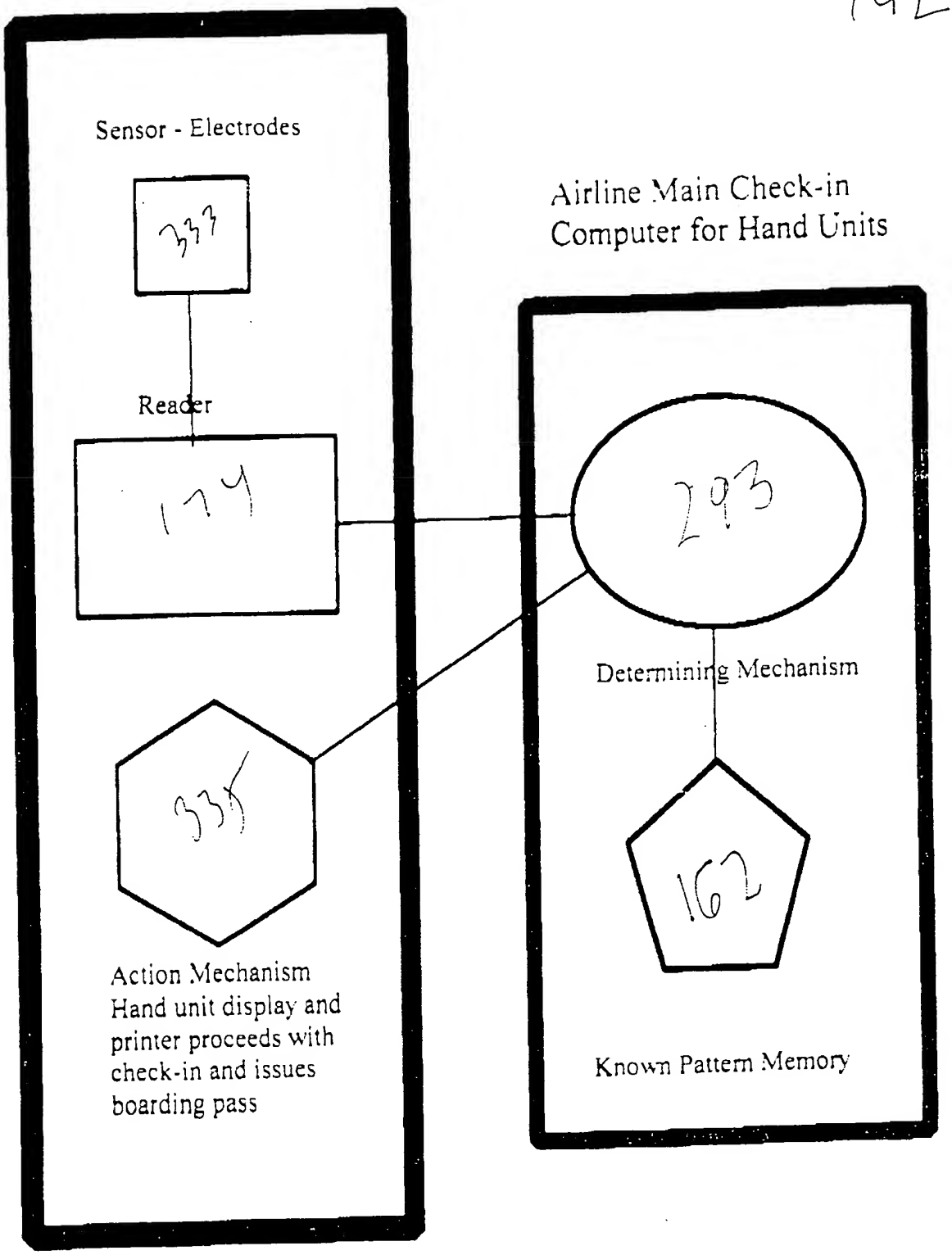


FIG 143

Airline Check-in Hand Unit

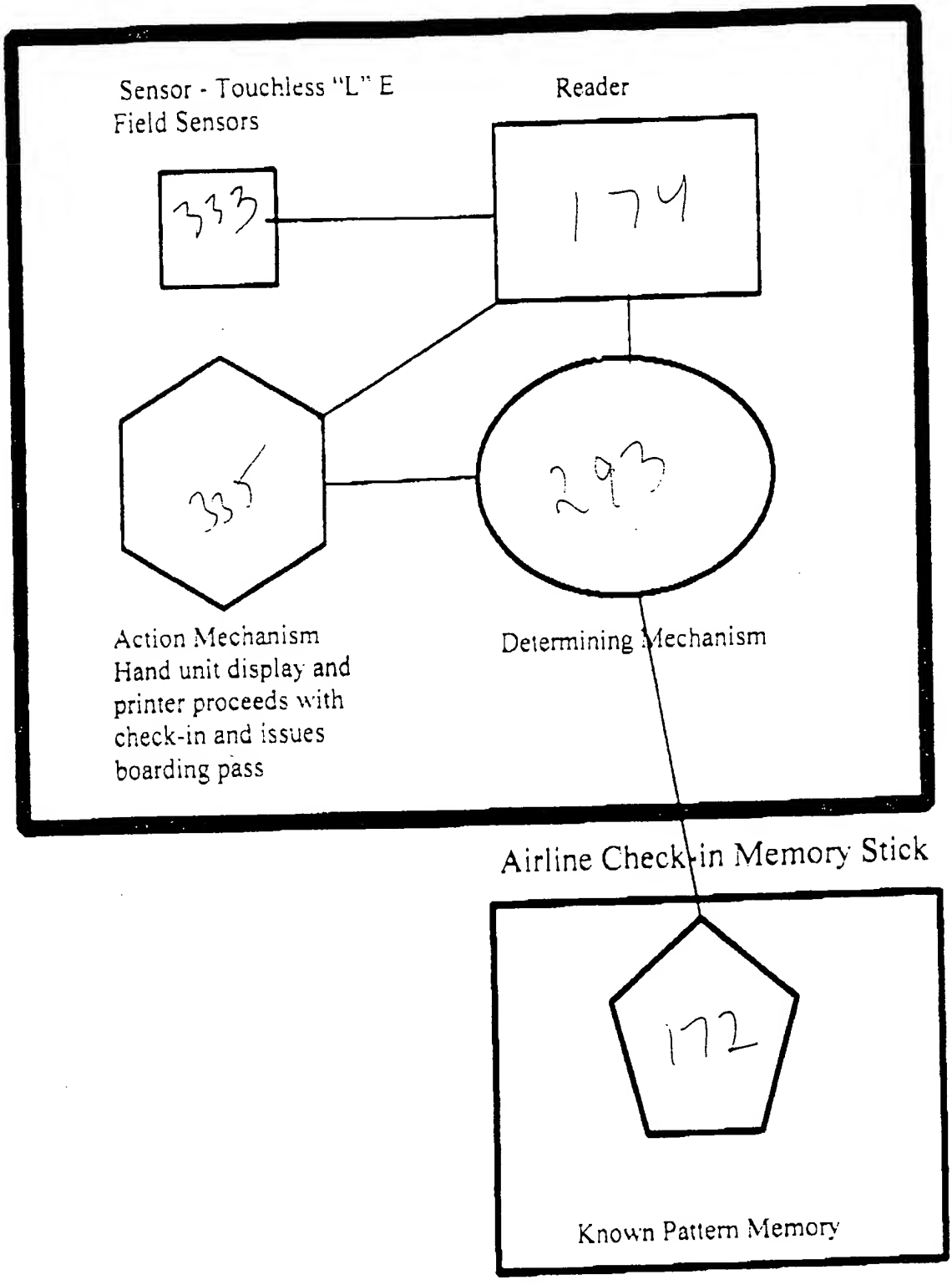


FIG
144

Airline Check-in Hand Unit

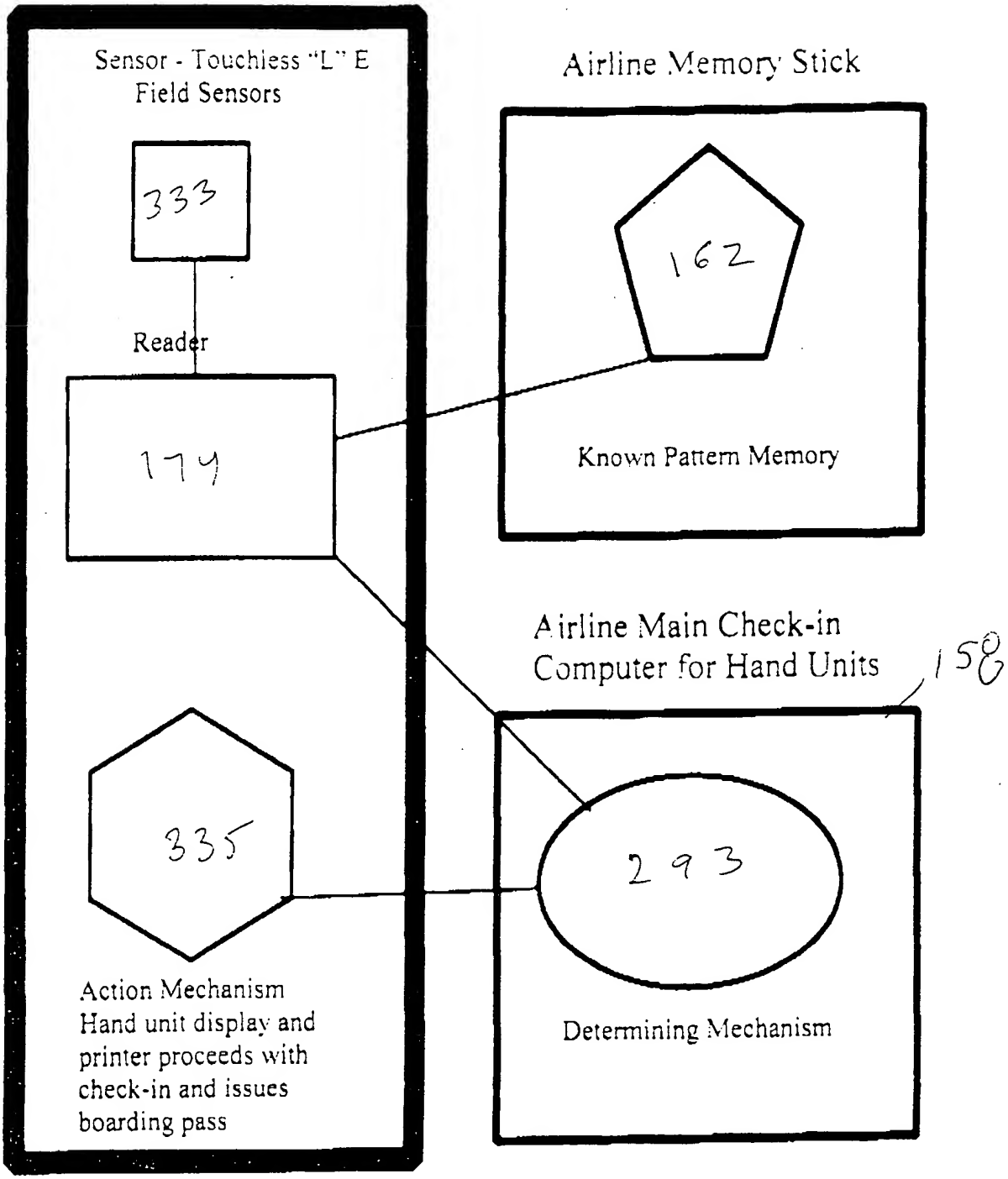


FIG 145

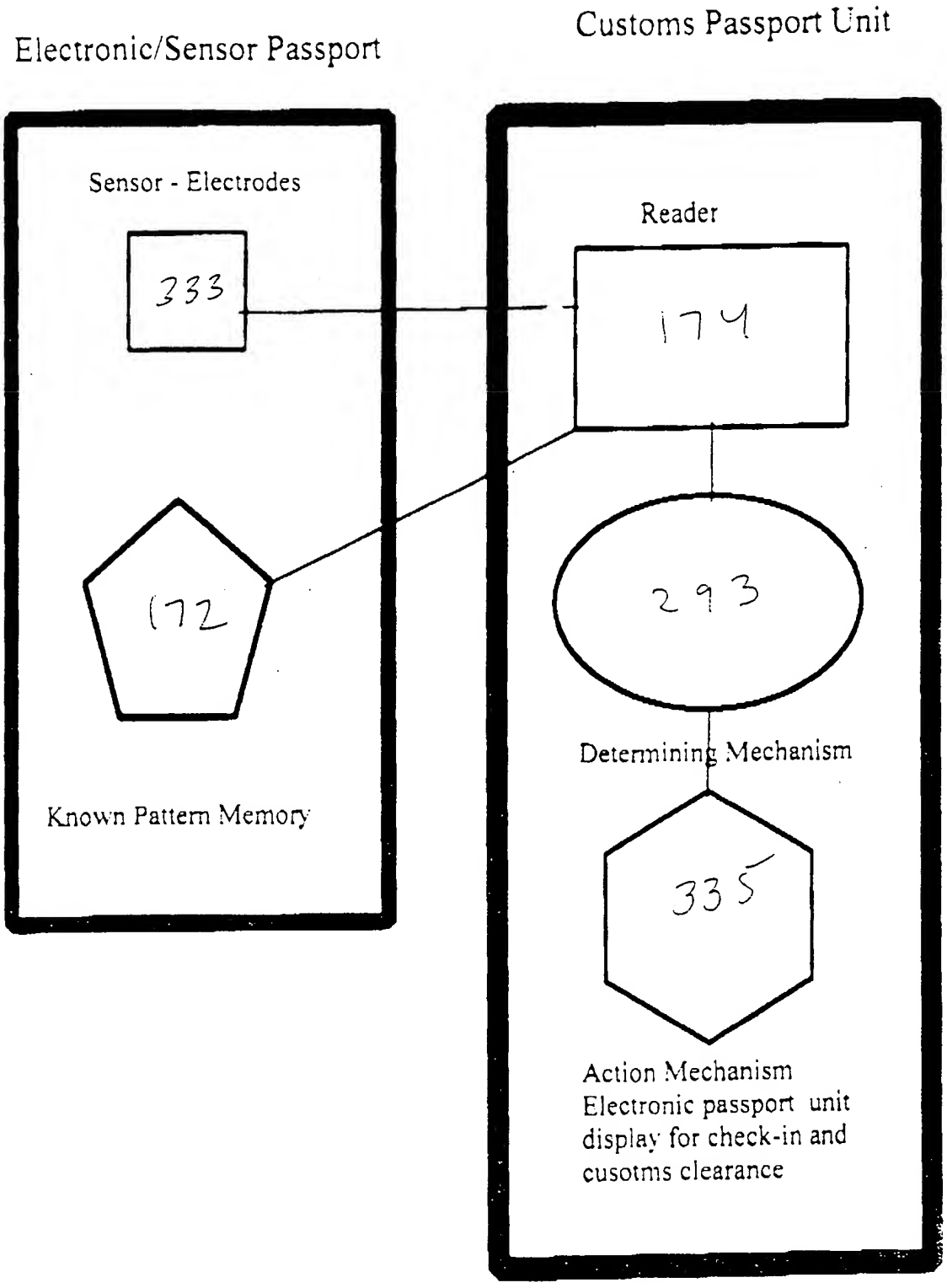

Electronic/Sensor Passport
Customs Passport Unit
Sensor - Electrodes
333
Reader
174
172
293
Determining Mechanism
335
Known Pattern Memory
Action Mechanism
Electronic passport unit
display for check-in and
cusotms clearance

FIG
146

Airline Check-in Hand Unit

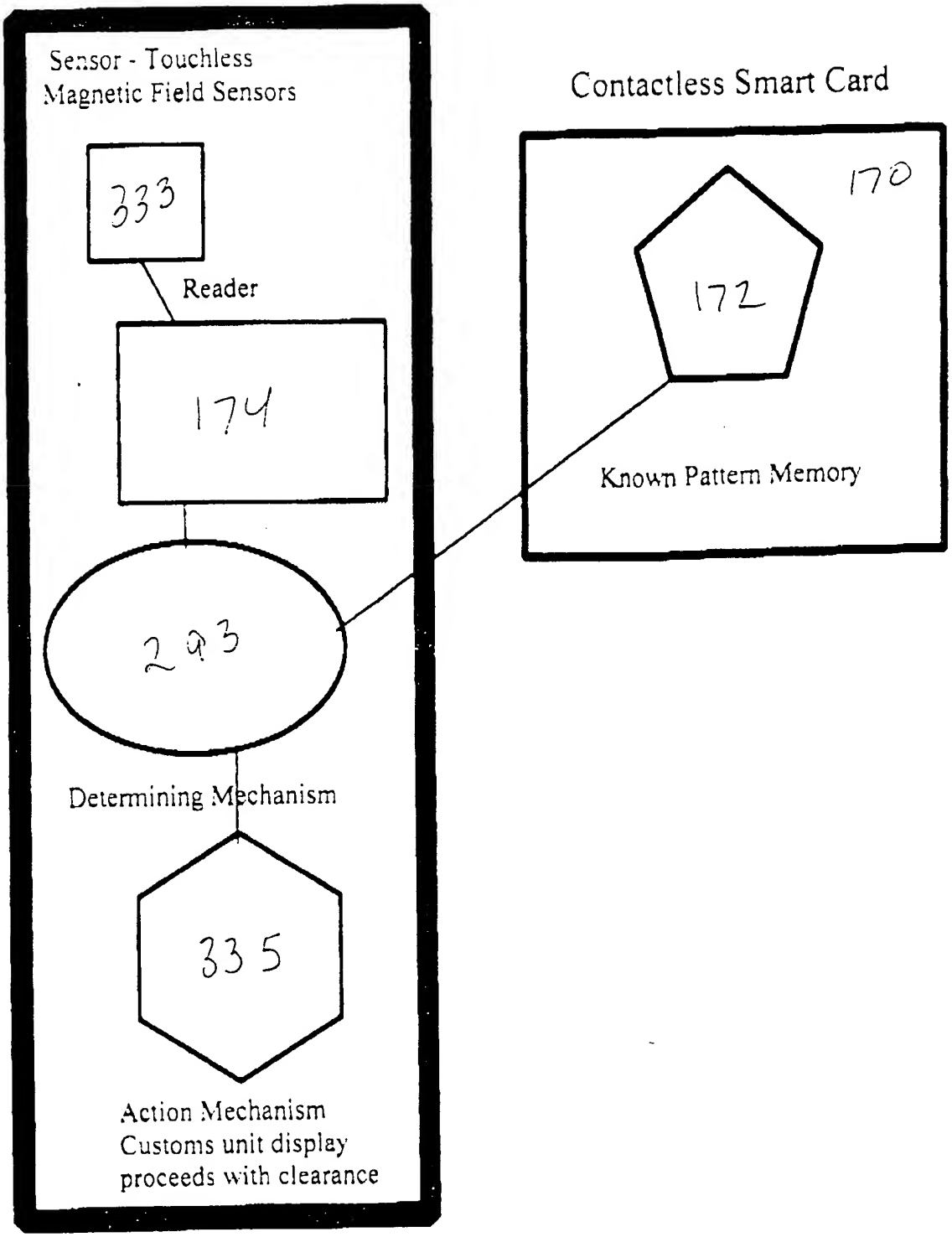


Fig 147

Recessed Sensor Unit in Lap-top Computer

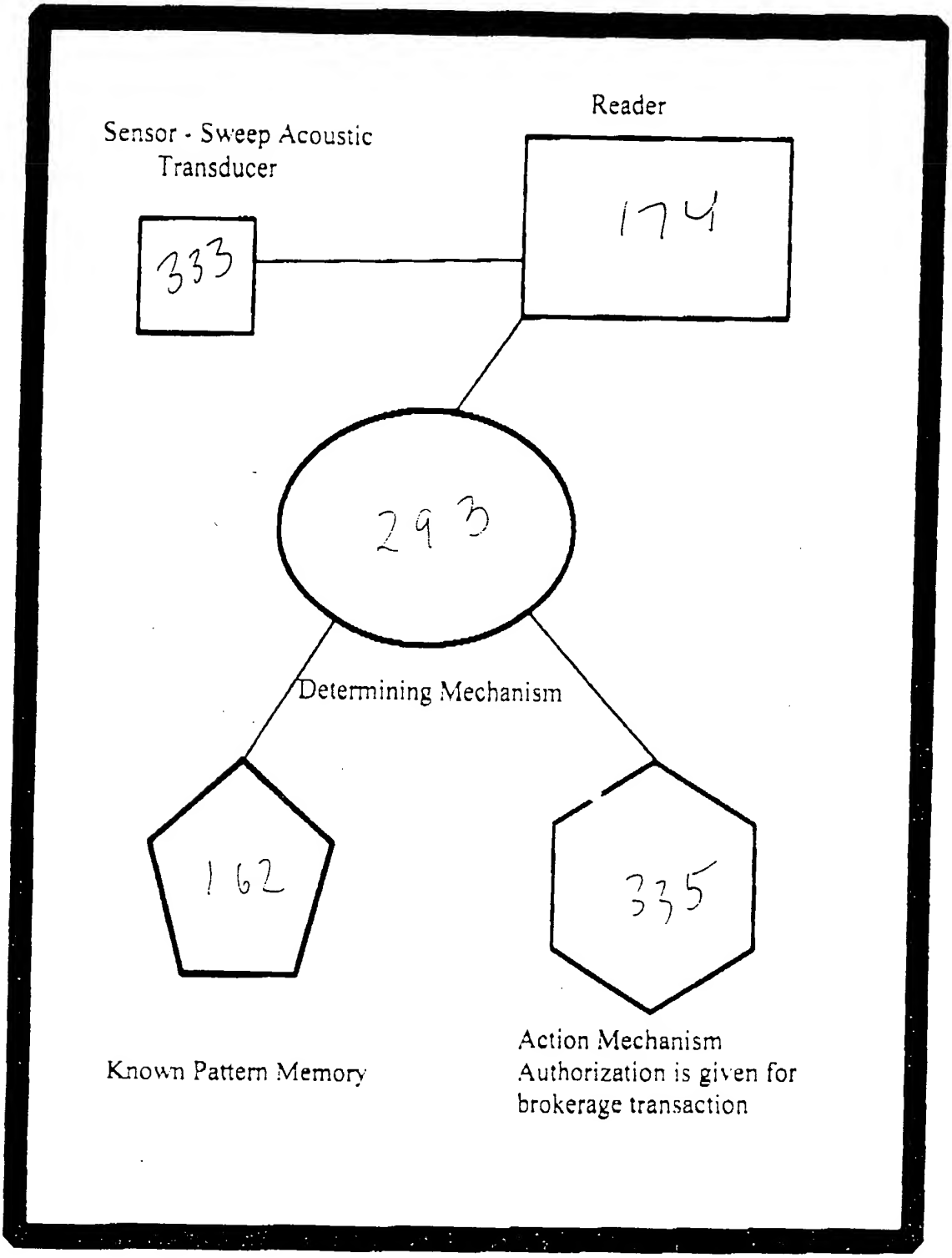
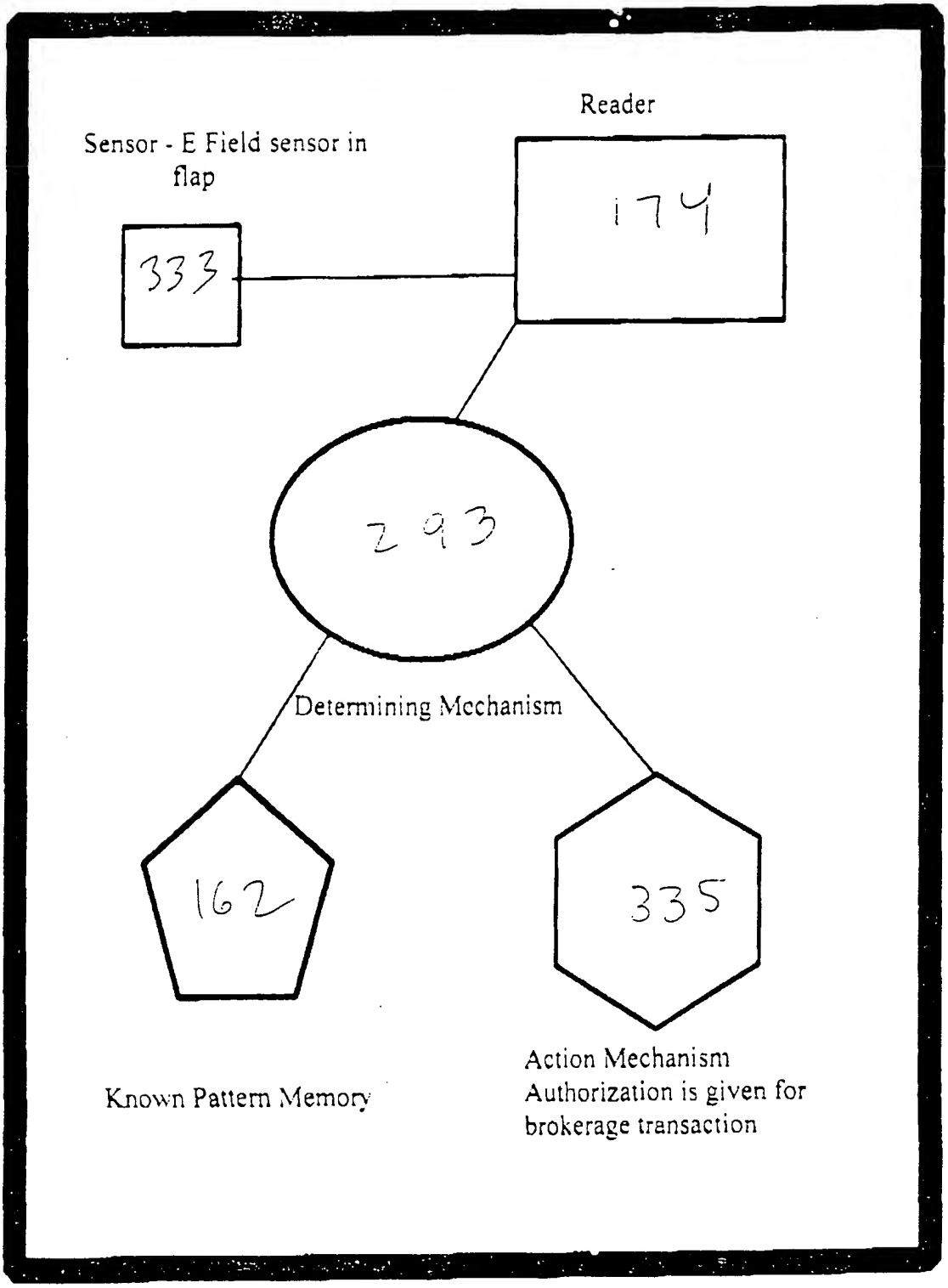


FIG 148

Recessed Flap Sensor Unit in Lap-top Computer



Recessed Flap Sensor Unit in Lap-top Computer

FIG
148a

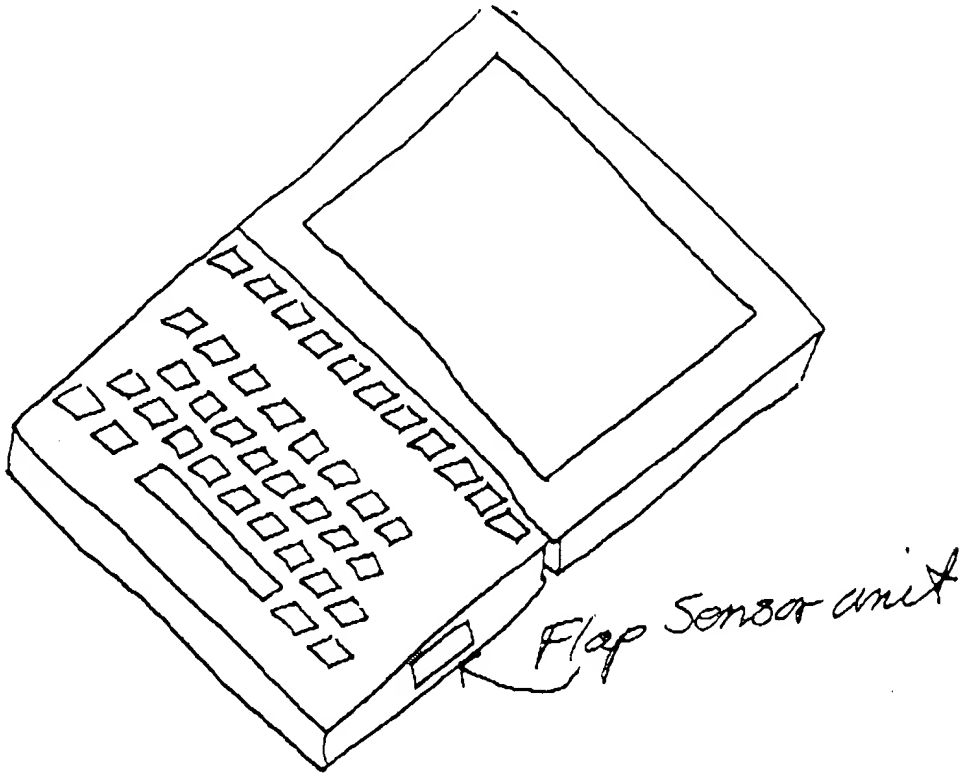
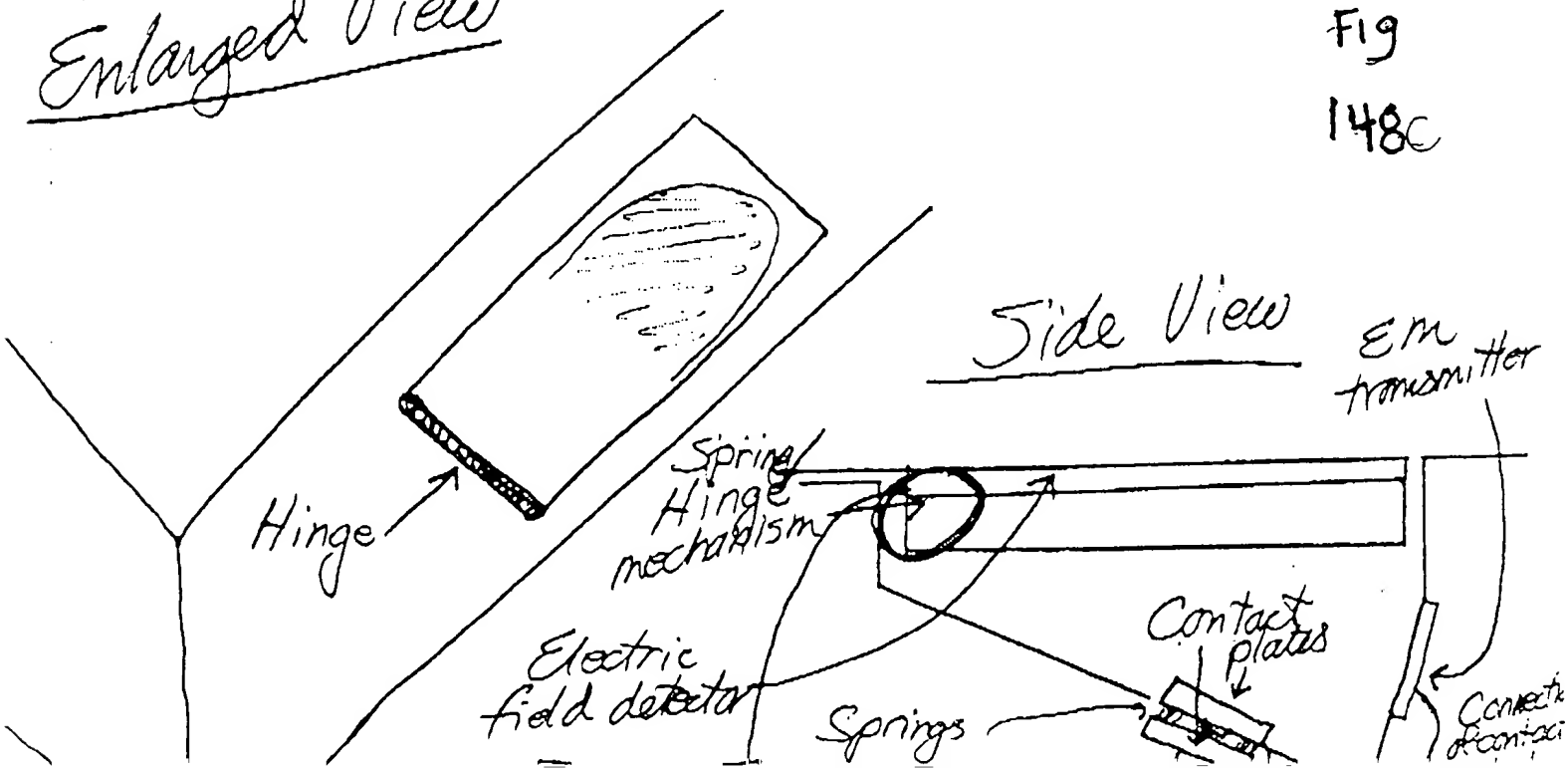


Fig
148b

Enlarged View

Fig
148c



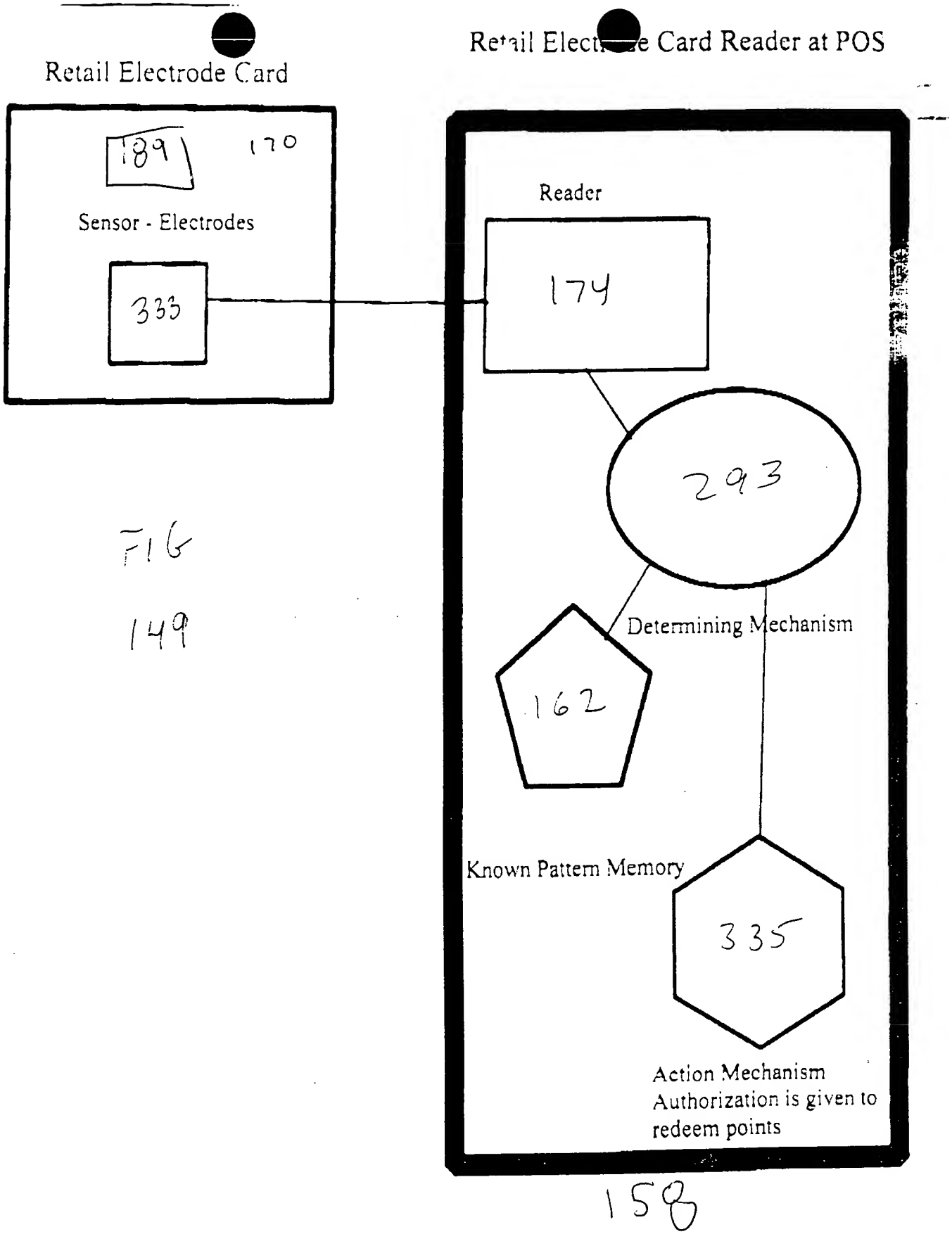

Retail Electrode Card
Retail Electrode Card Reader at POS
189
170
Sensor - Electrodes
333
Reader
174
293
Determining Mechanism
162
Known Pattern Memory
335
Action Mechanism
Authorization is given to
redeem points
158

FIG 149

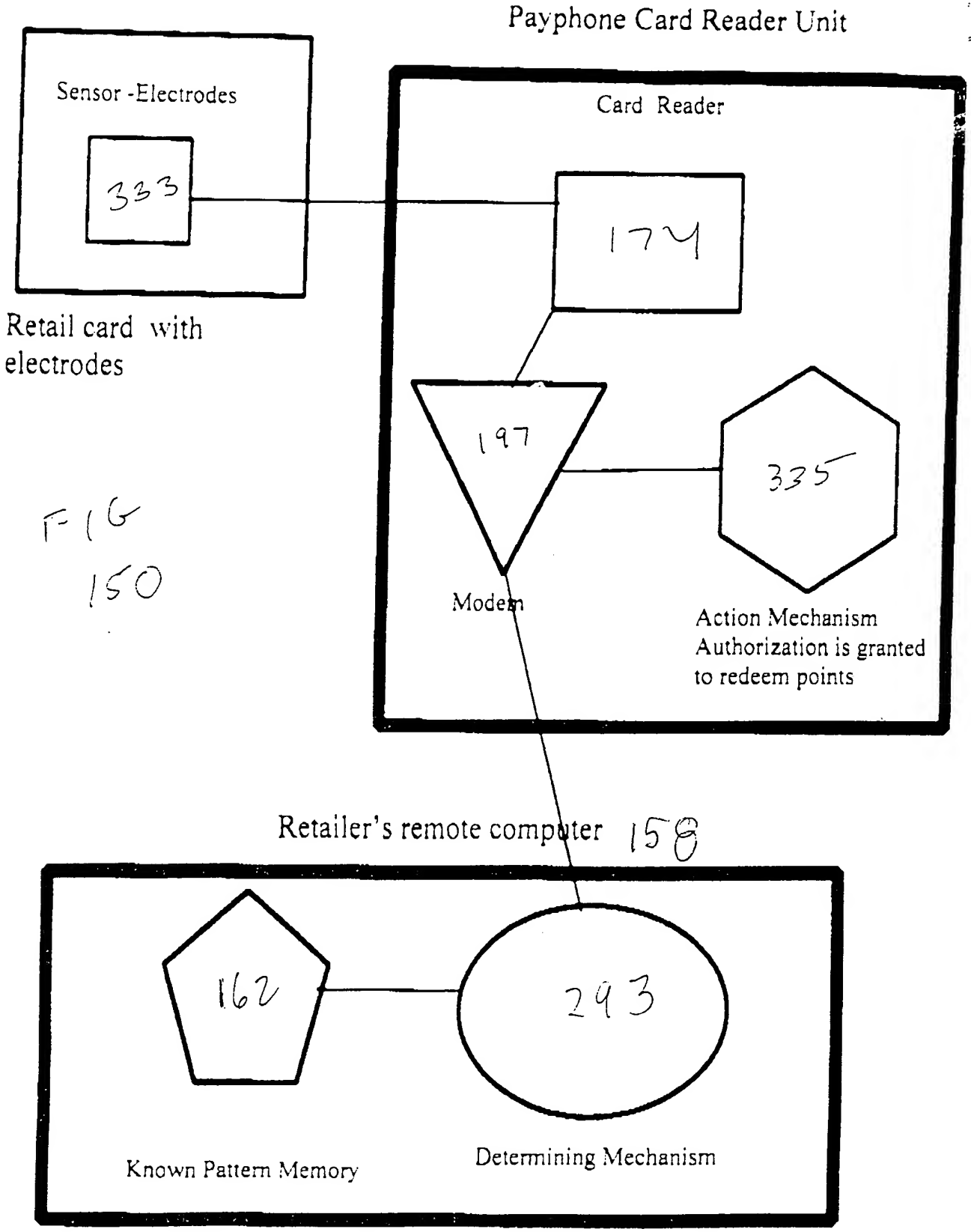

Payphone Card Reader Unit
Sensor -Electrodes
333
Retail card with electrodes
Card Reader
174
197
335
Modem
Action Mechanism
Authorization is granted to redeem points
Retailer's remote computer 158
162
293
Known Pattern Memory
Determining Mechanism

FIG 150

Transmitter/Receiver Biometric Unit at Cash Register

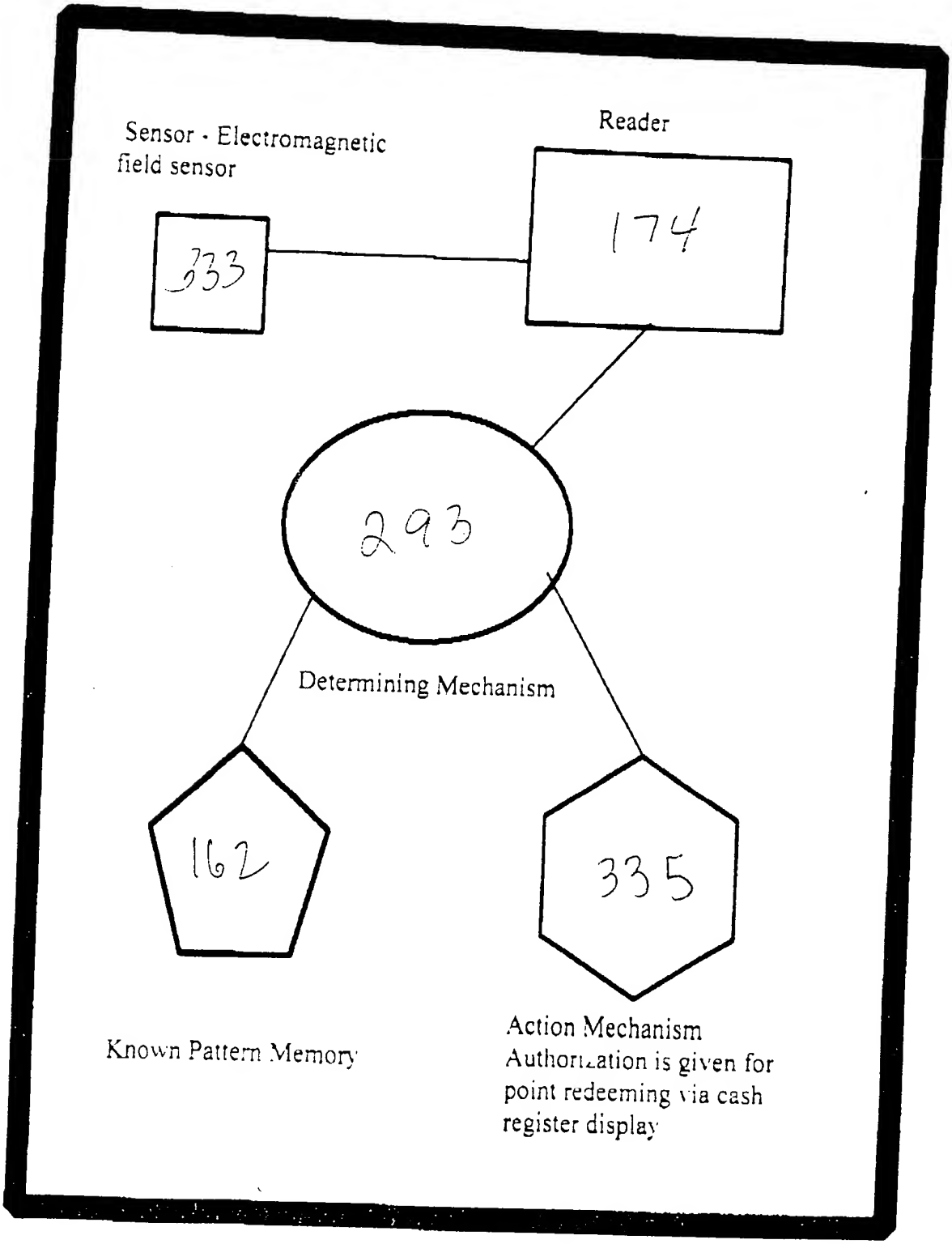


FIG 151

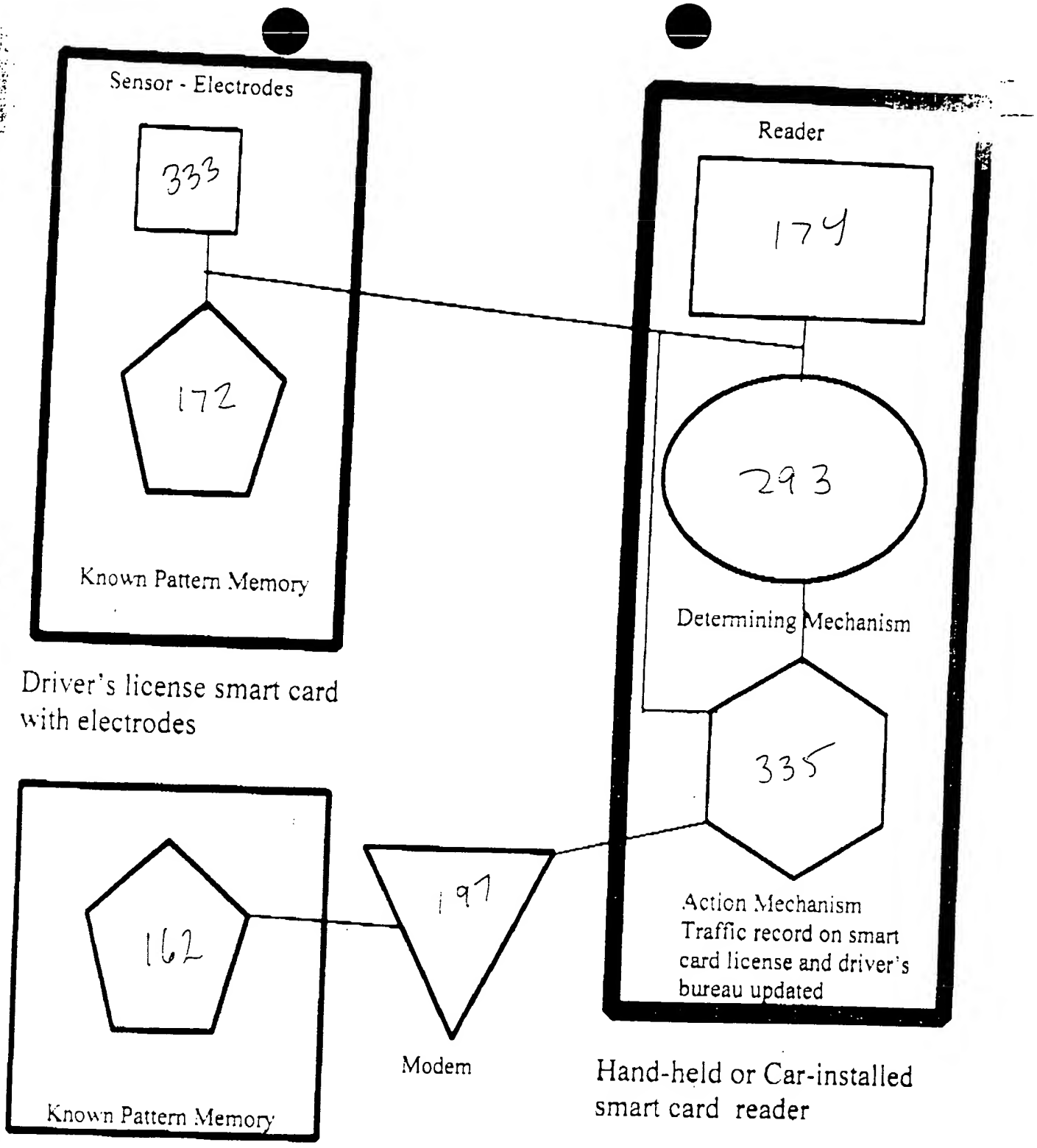
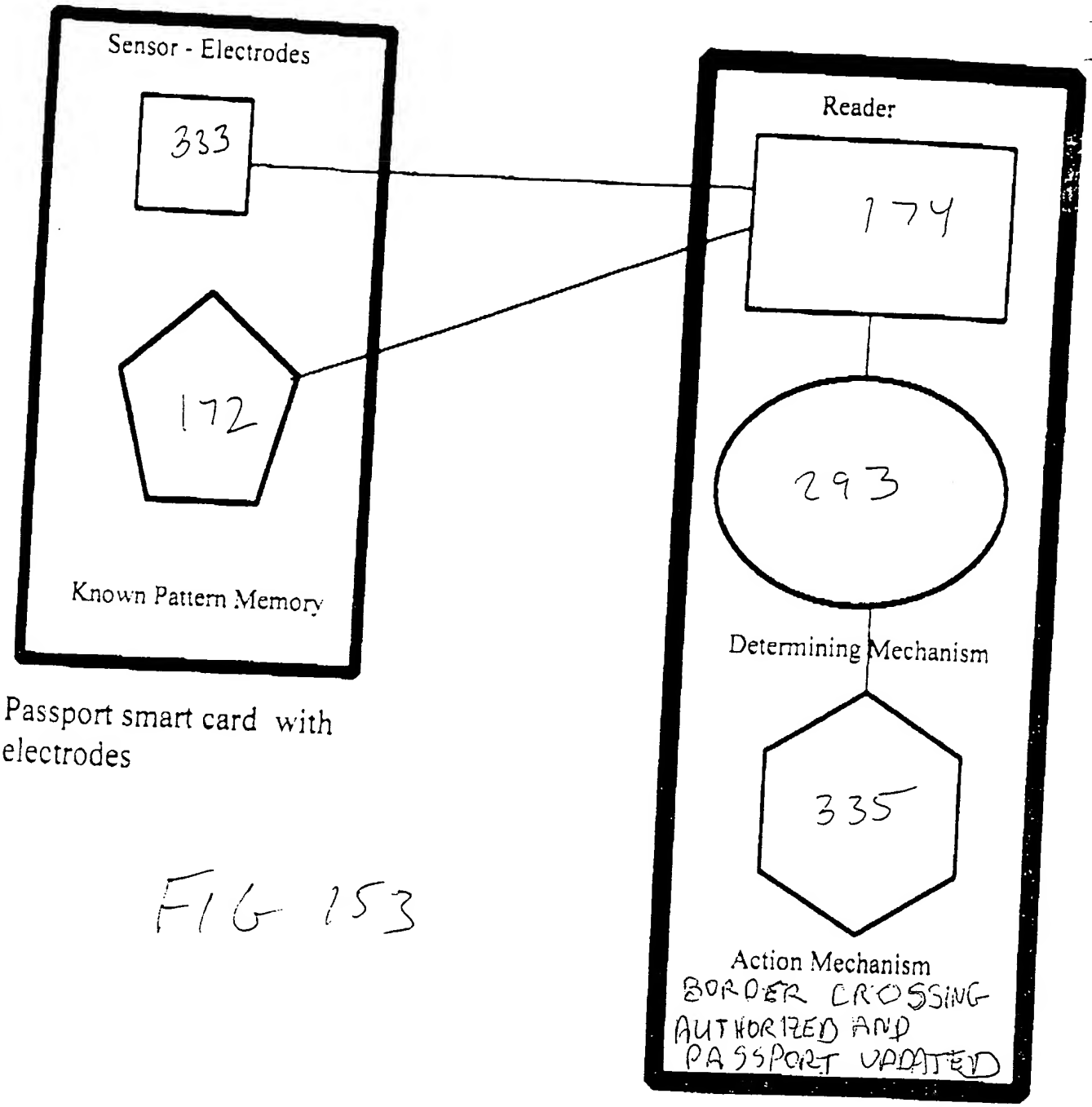

Sensor - Electrodes
333
172
Known Pattern Memory
Driver's license smart card with electrodes
Reader
174
293
Determining Mechanism
335
Action Mechanism
Traffic record on smart card license and driver's bureau updated
Hand-held or Car-installed smart card reader
197
Modem
162
Known Pattern Memory
Traffic bureau computer
158

FIG 152



Passport smart card with electrodes

FIG 153

Passport smart card reader

Wall-mounted handpiece next to do

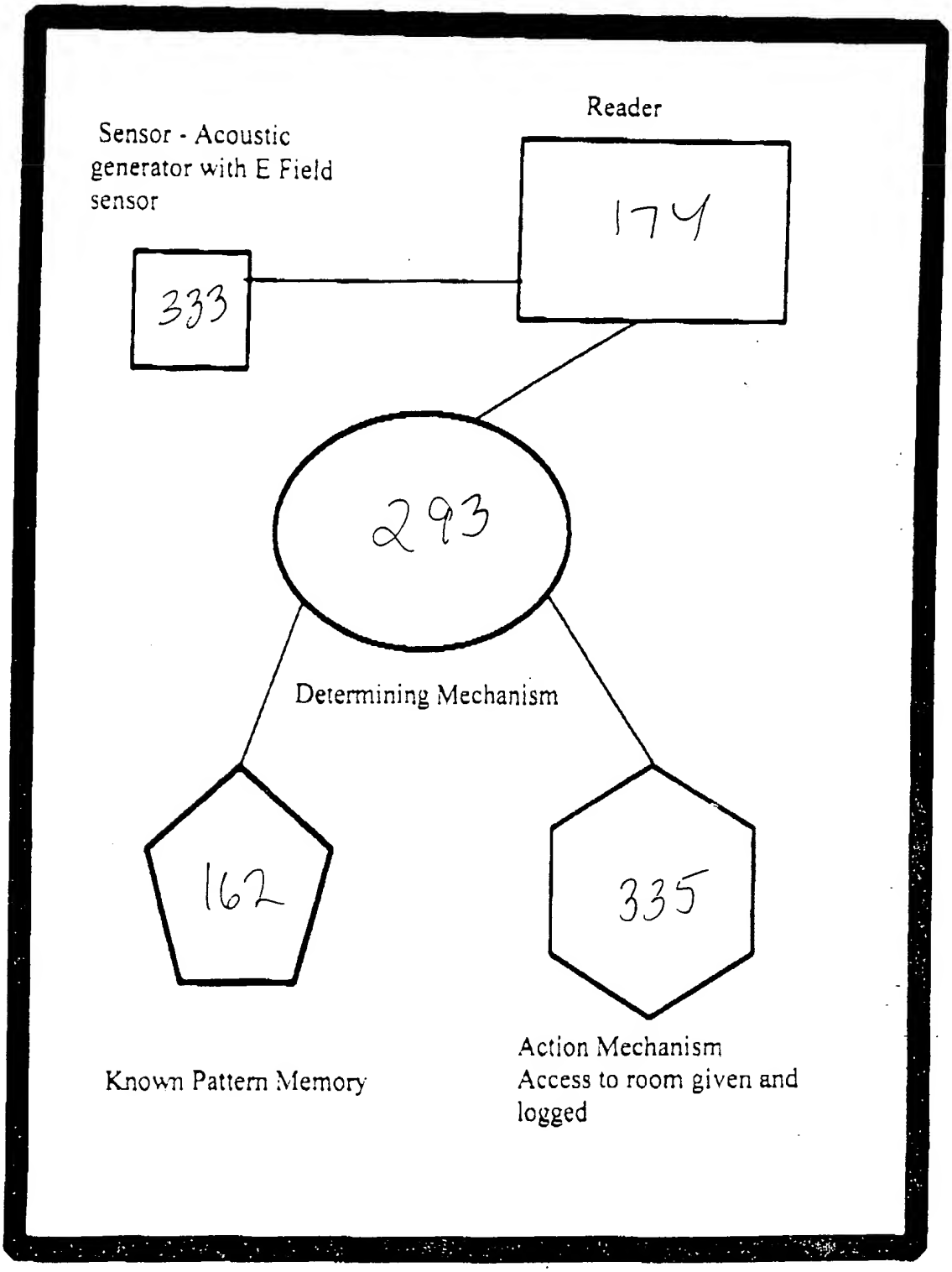


FIG 154

Hand [illegible] on door

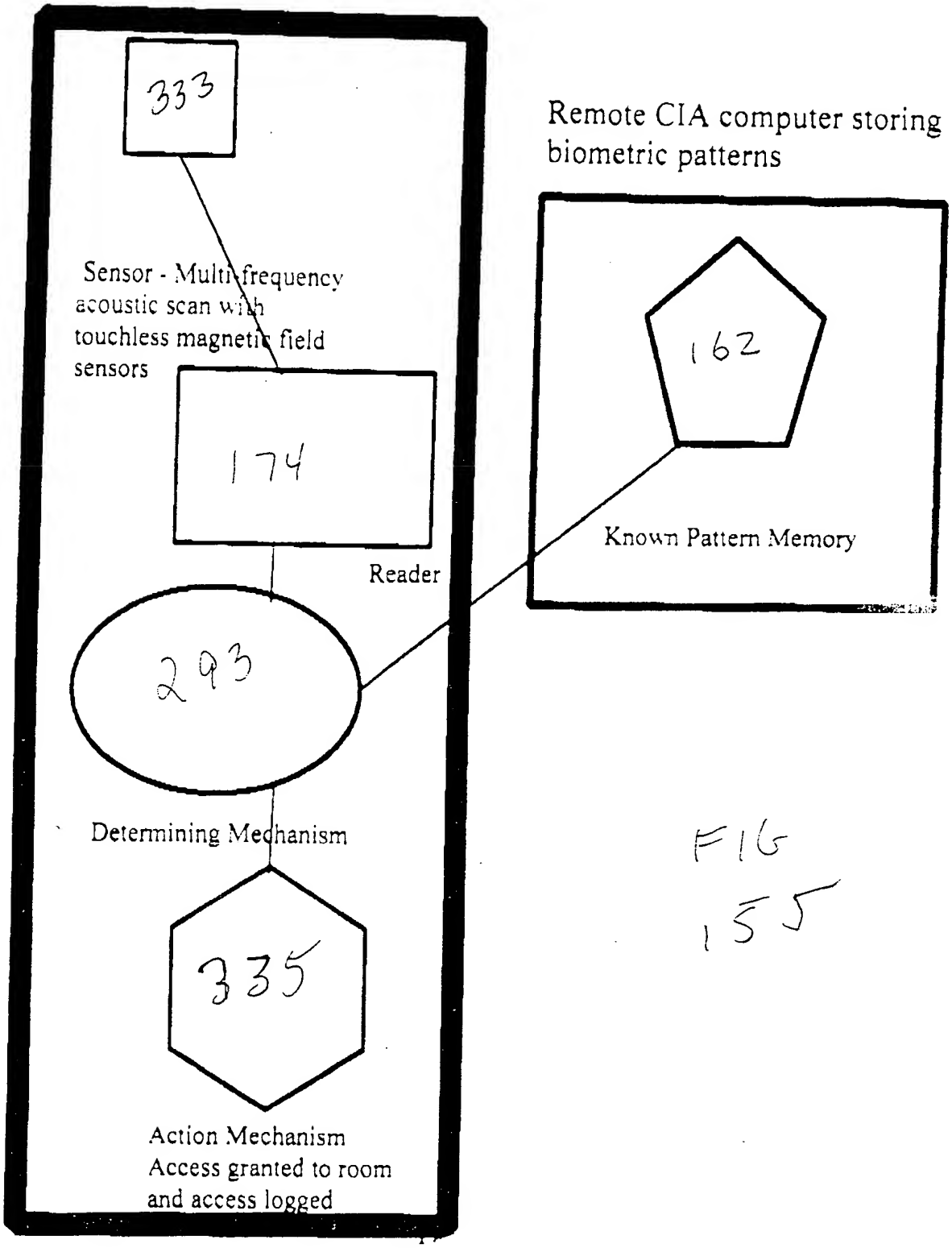


FIG
155

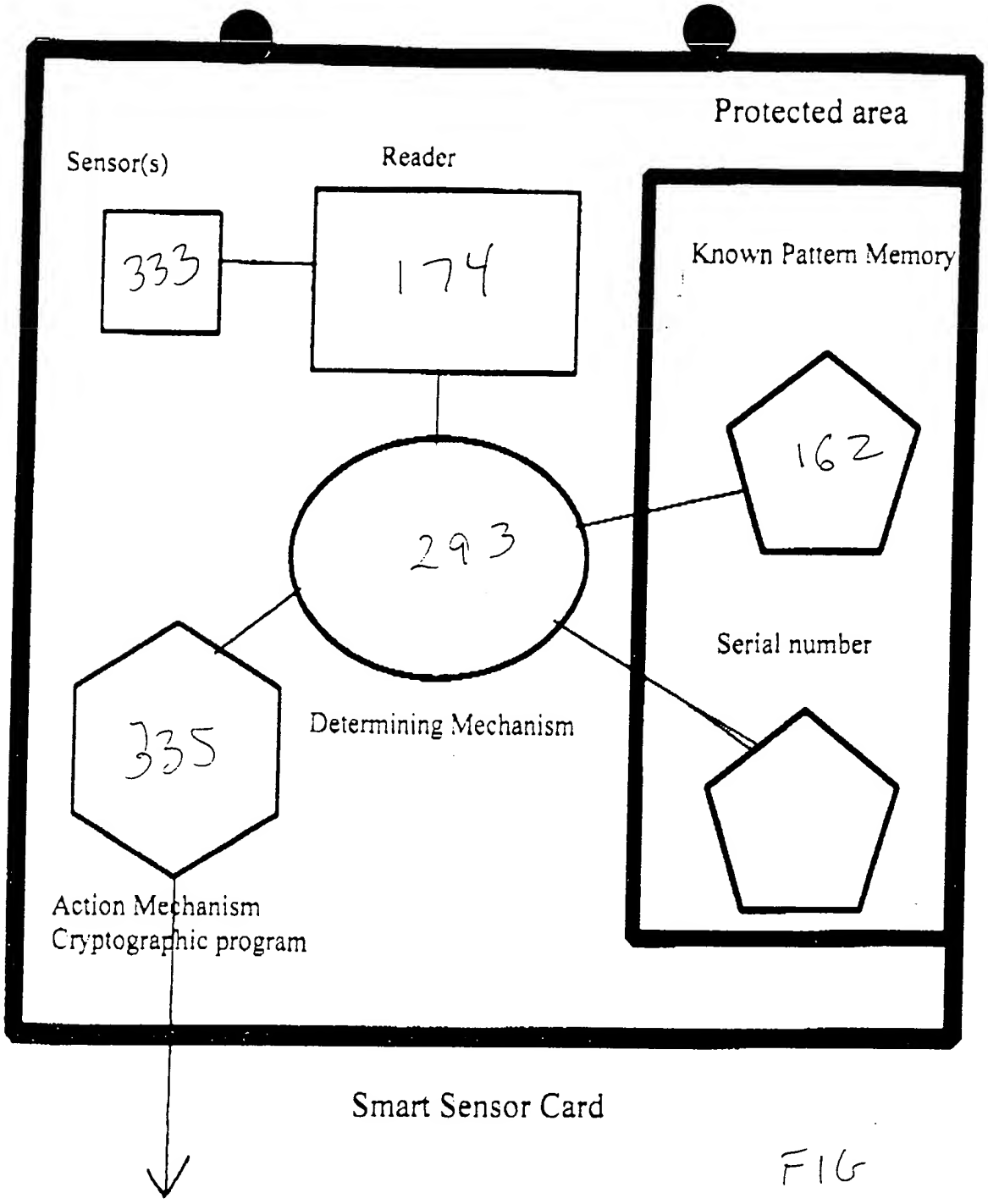


FIG
156

0050145 - 0045 0

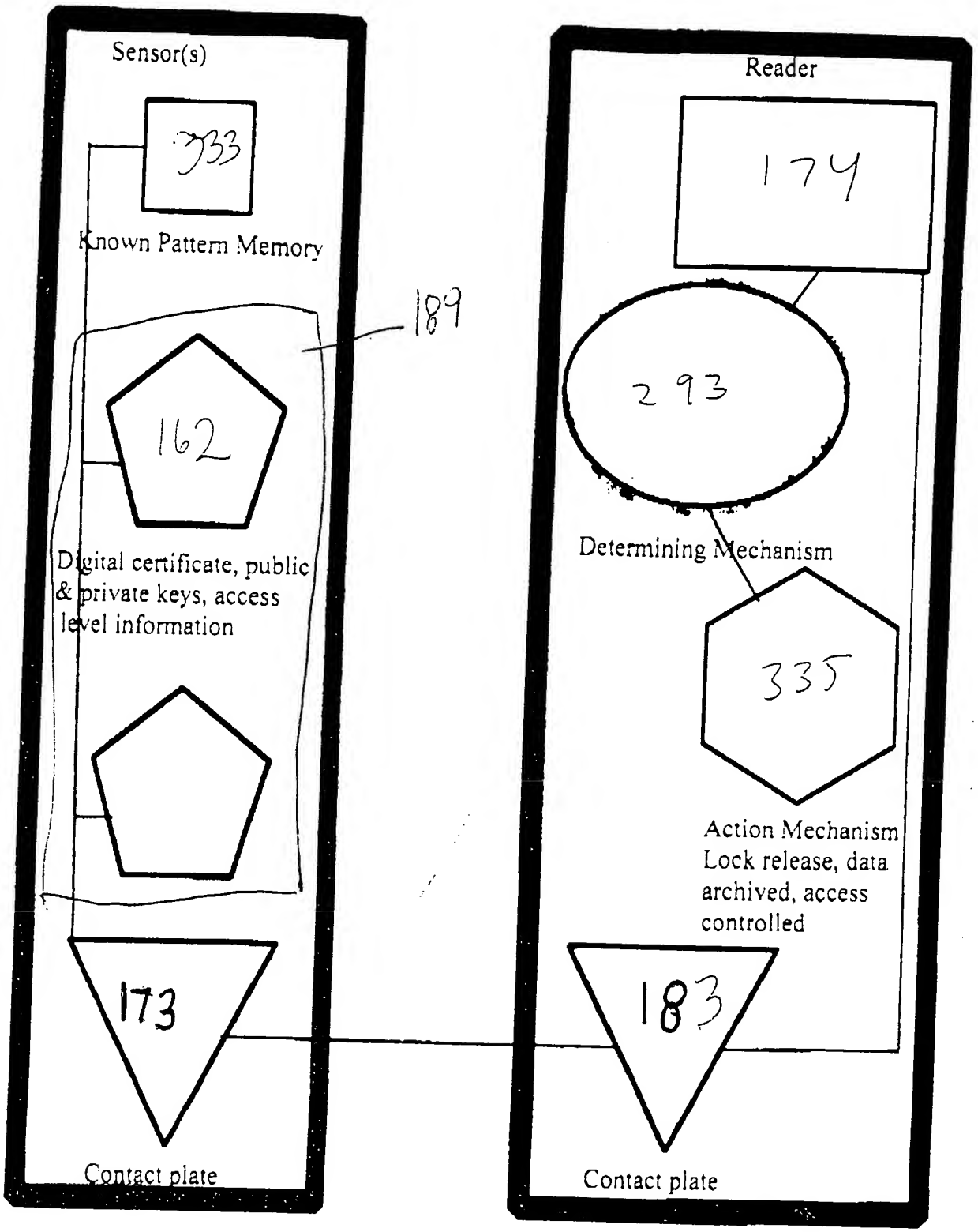


FIG 157

0050150-0050150

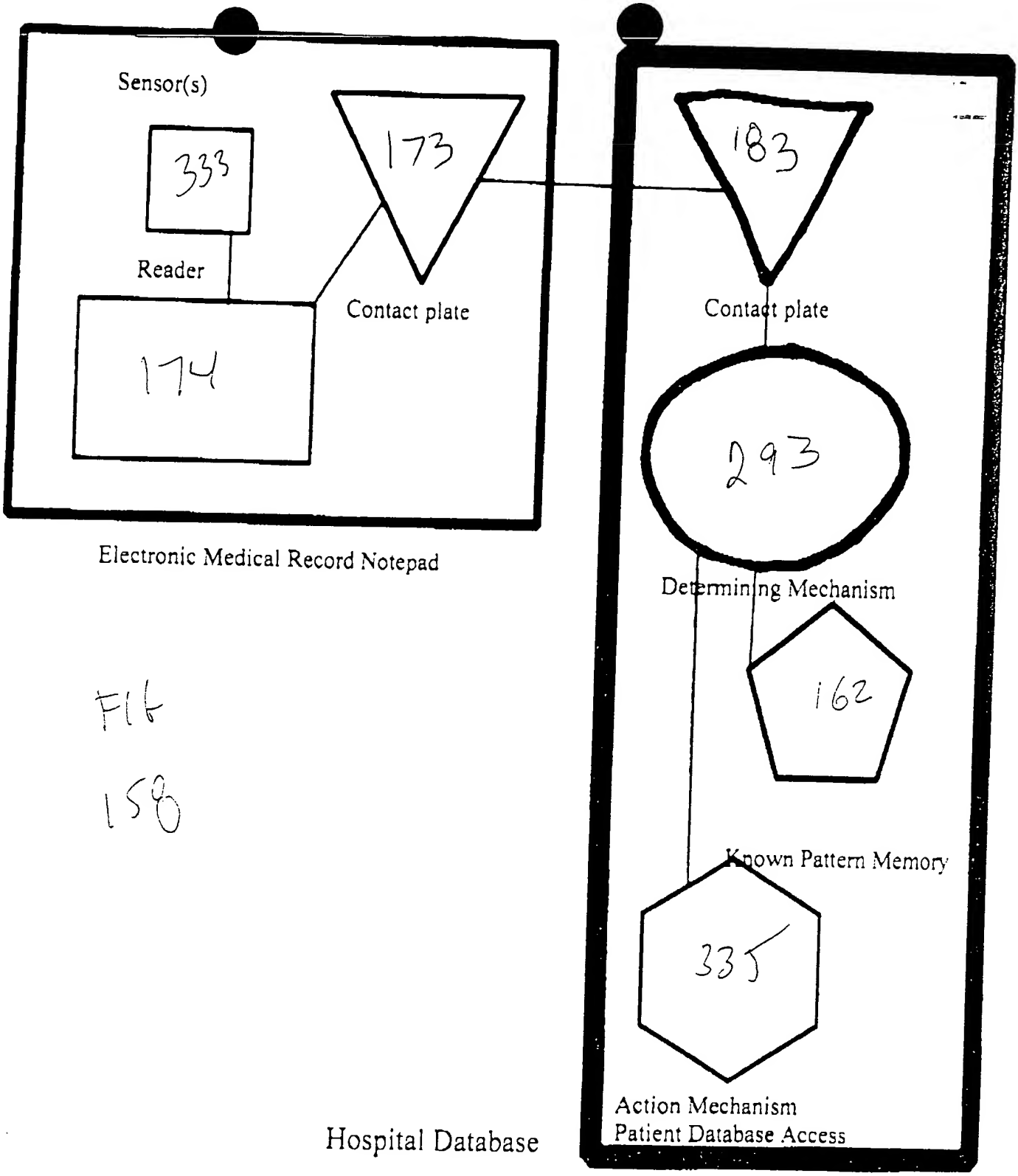
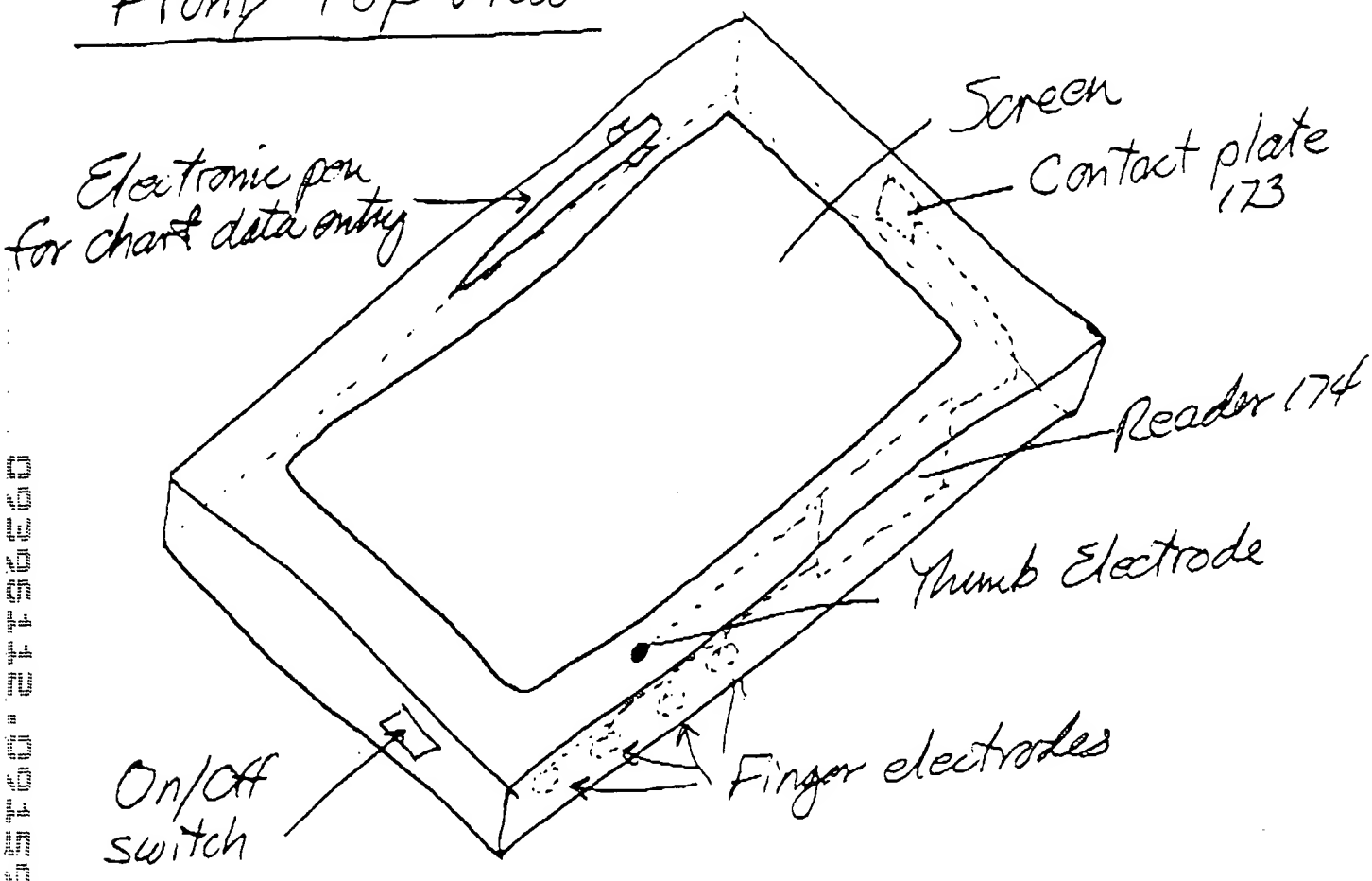

Sensor(s)
333
Reader
174
173
Contact plate
Electronic Medical Record Notepad
183
Contact plate
293
Determining Mechanism
162
Known Pattern Memory
335
Action Mechanism
Patient Database Access
Hospital Database

Fig 158

Electronic Medical Record Notepad

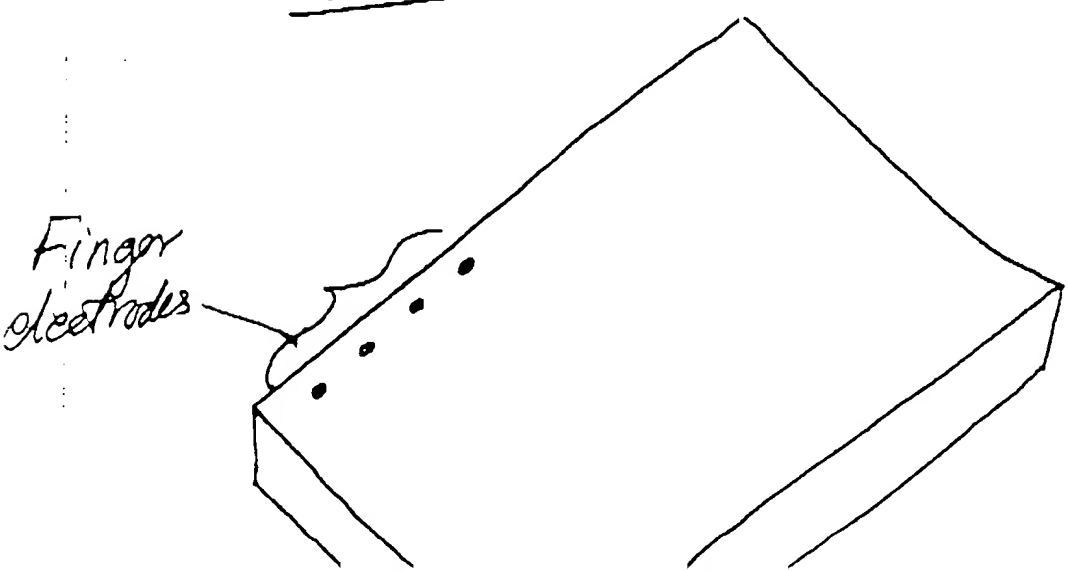
Fig 158a

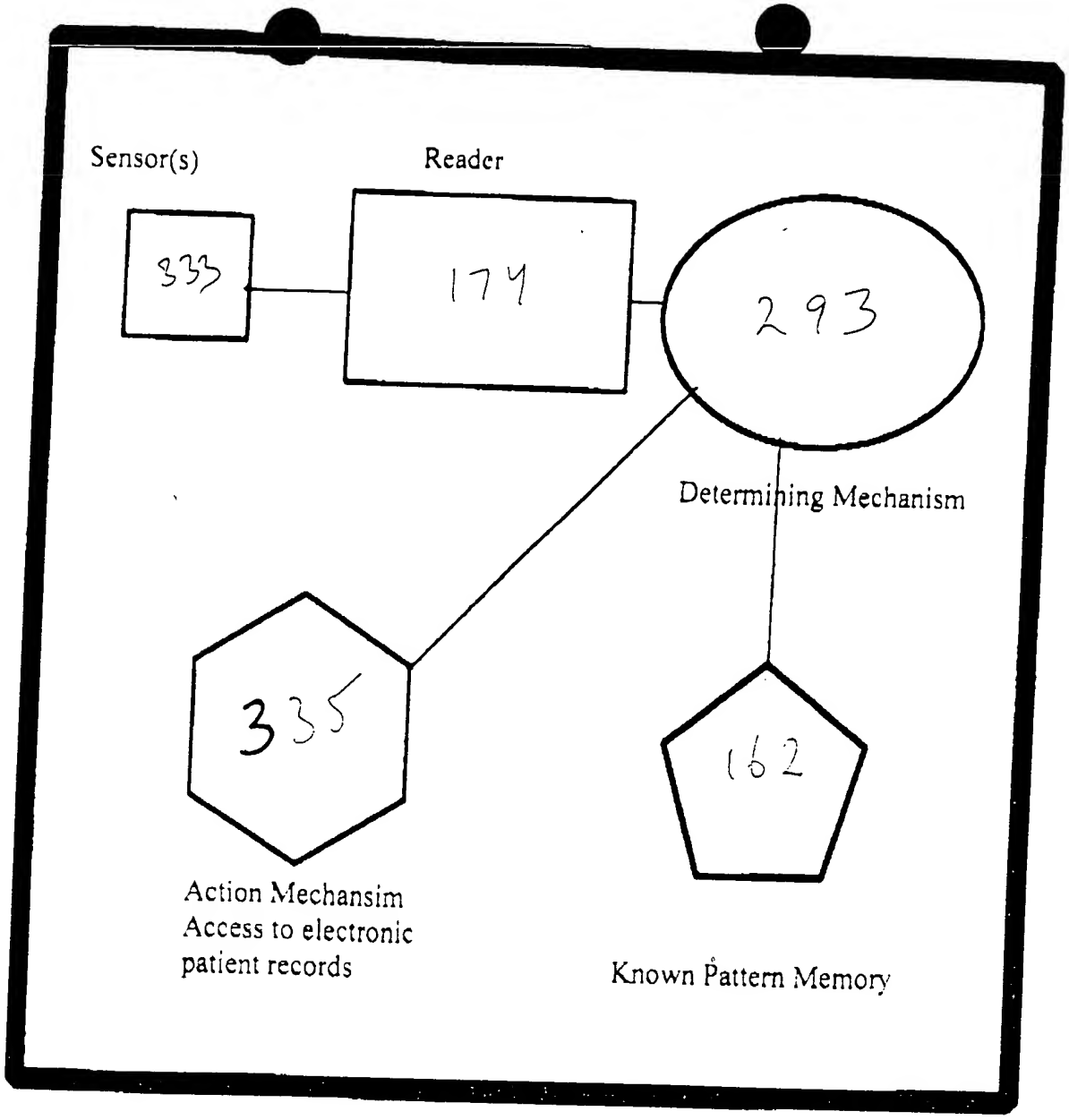
Front/Top View



Bottom View

Fig 158b

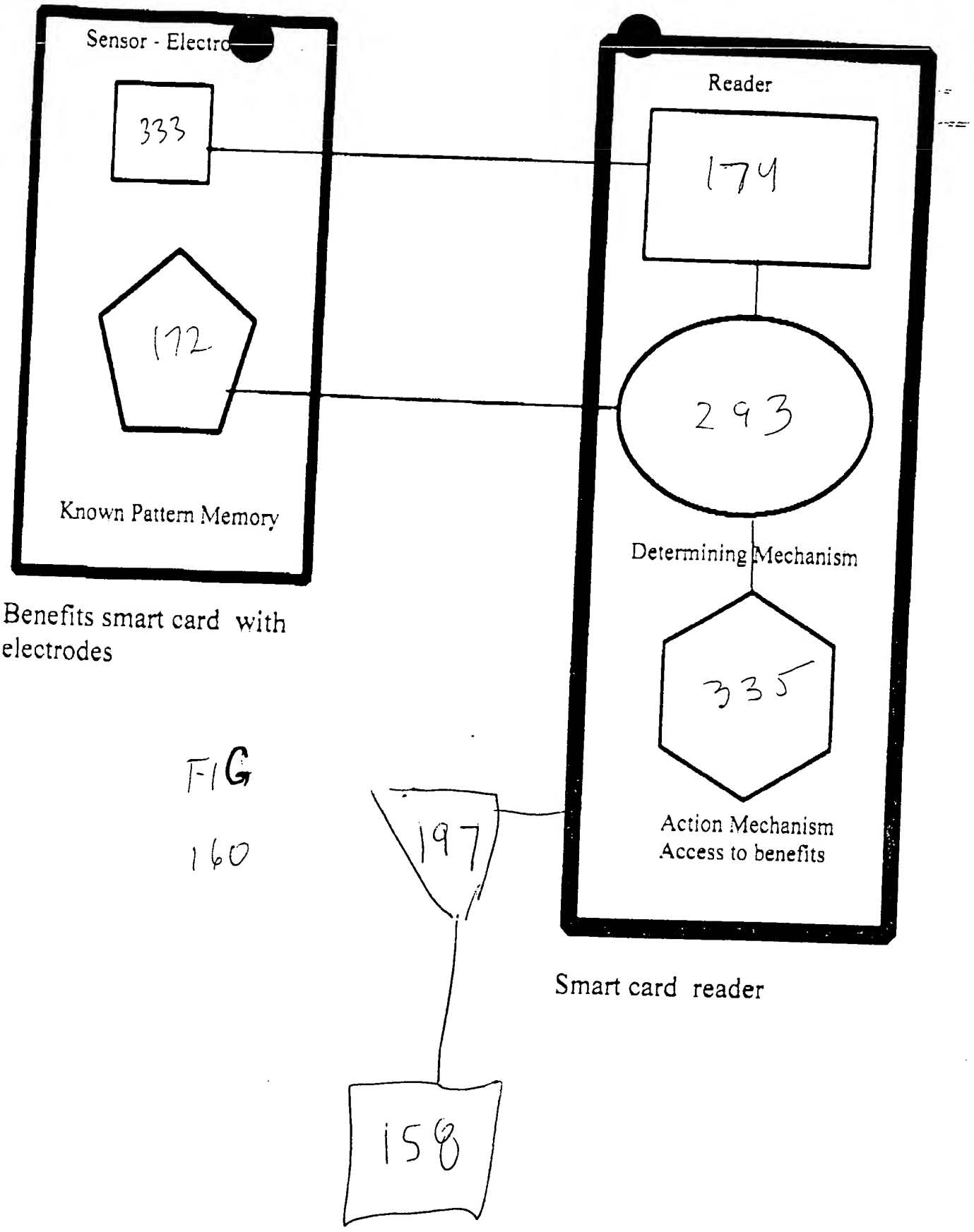




Smart Sensor Wristband

FIG 159

5,544,649



Benefits smart card with electrodes

Smart card reader

FIG

160

5,956,417

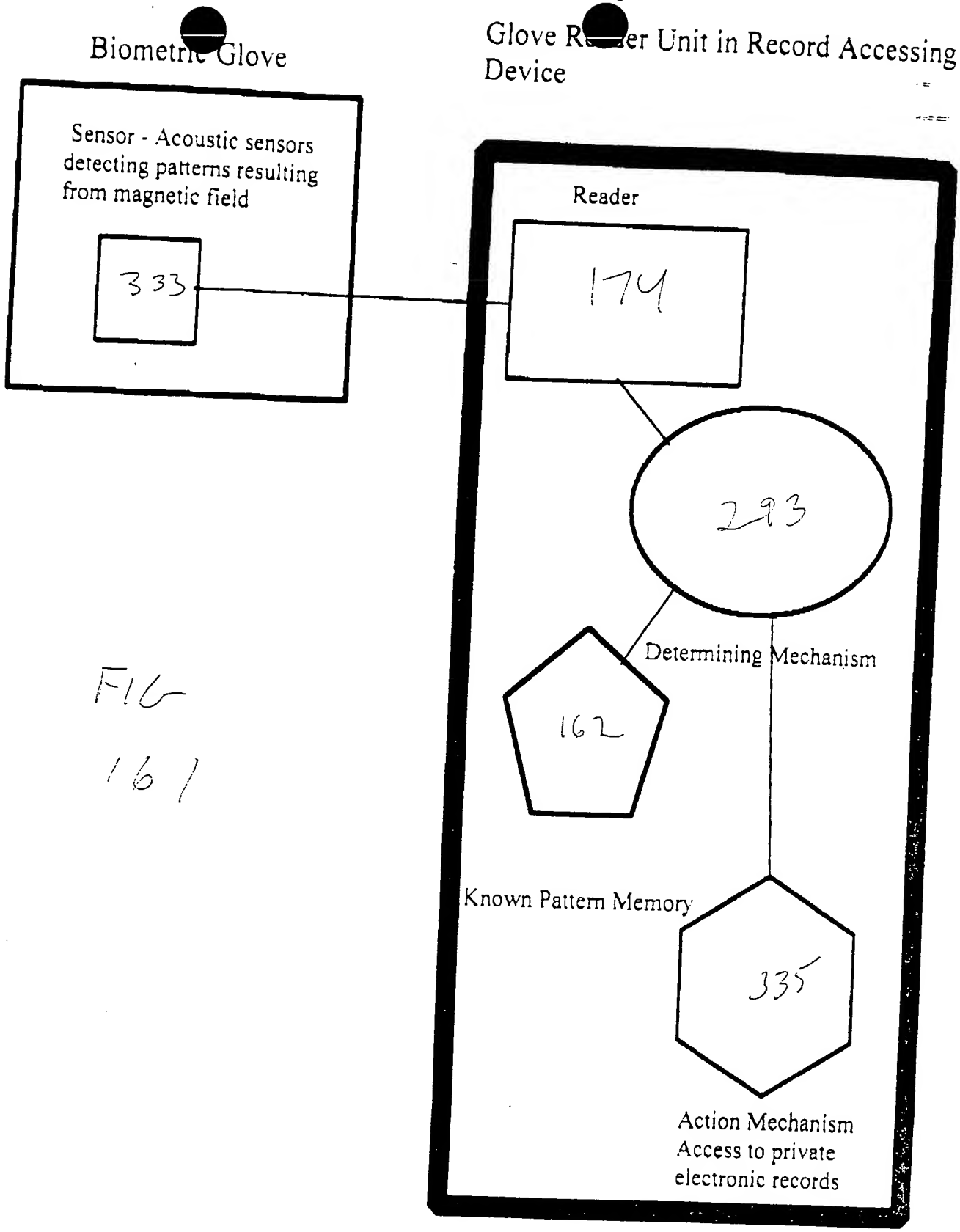


FIG 161

0050450-0050550

Biometric Glove

Back View

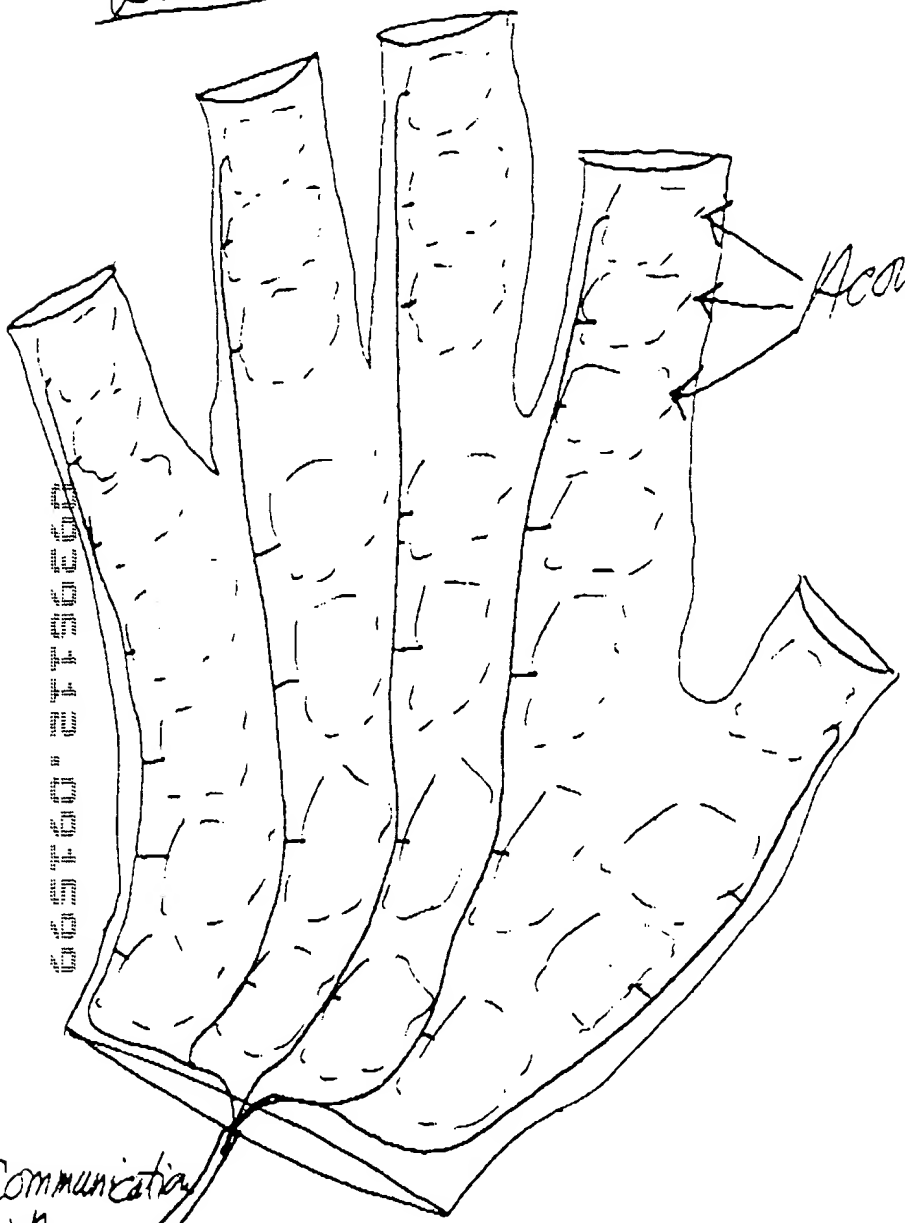


FIG 161a

Side View

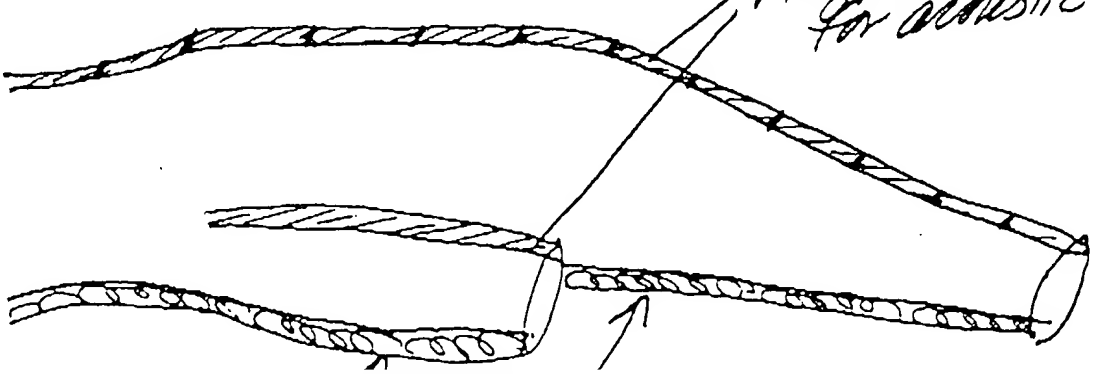
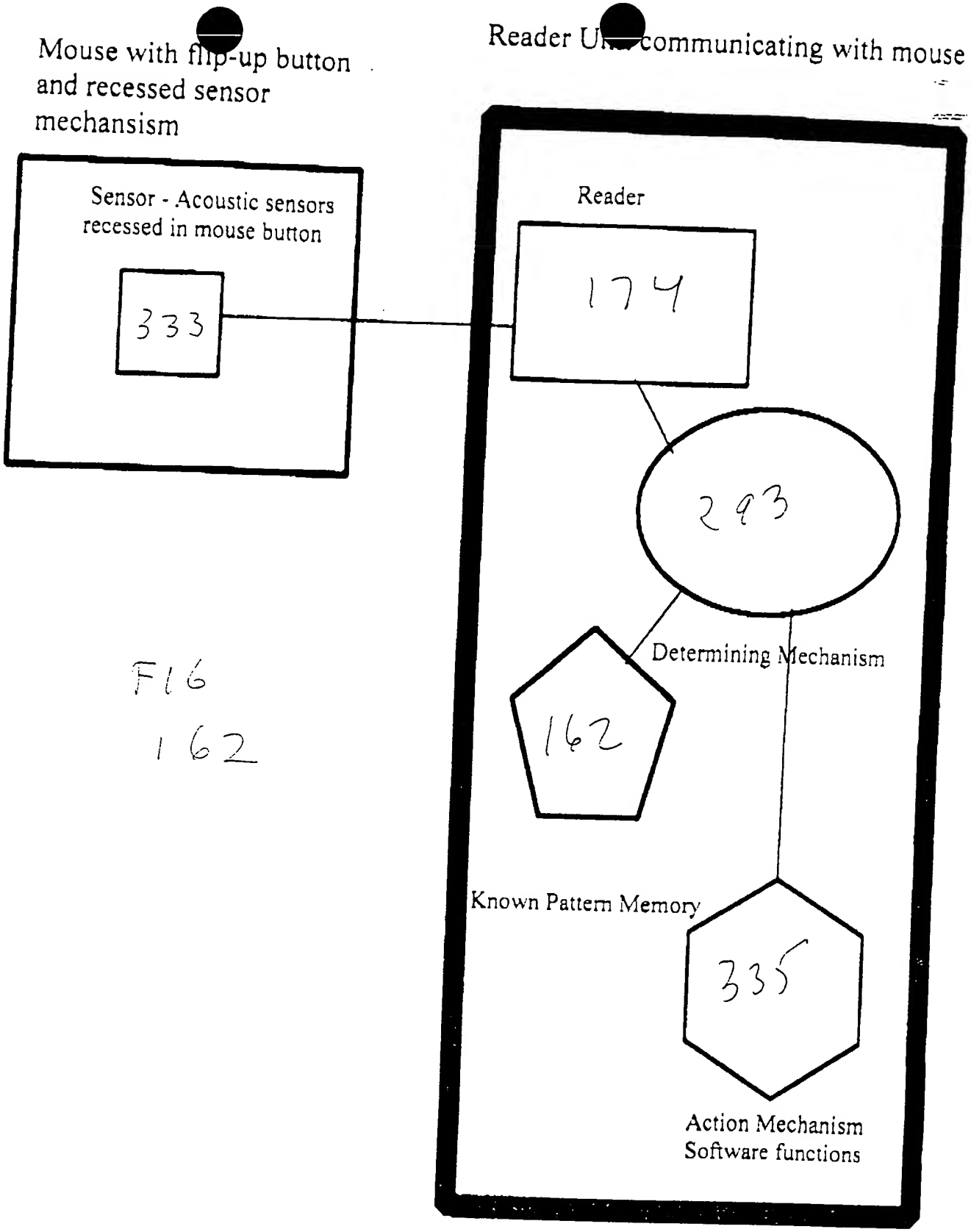


FIG 161b

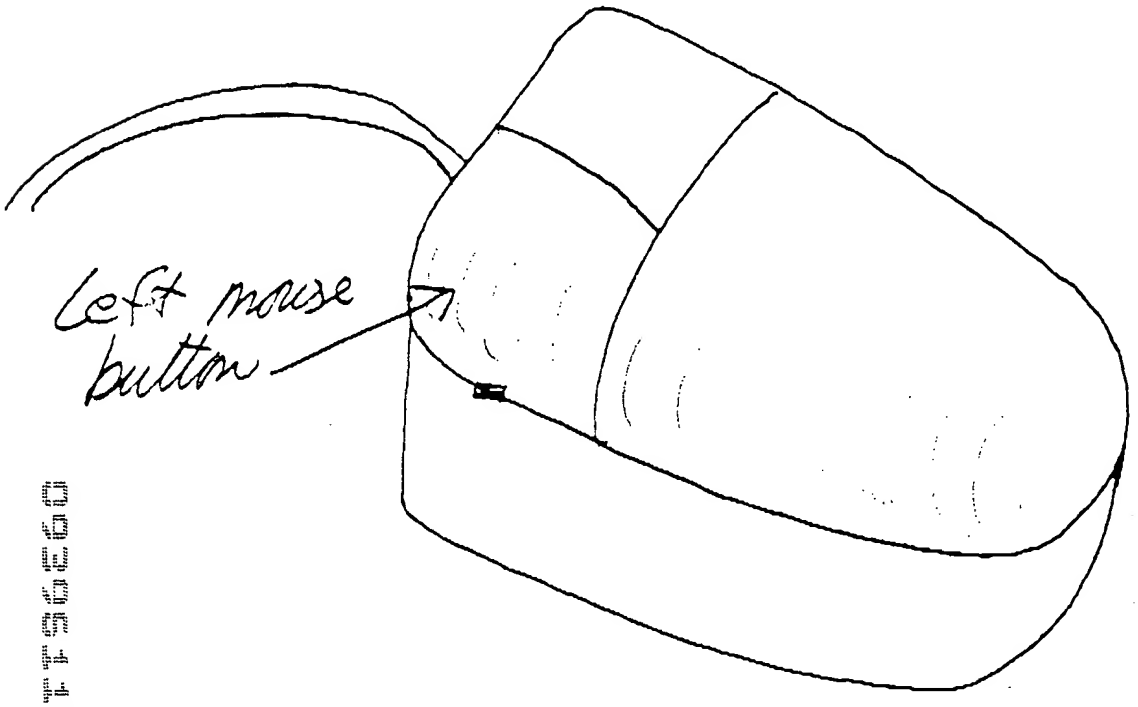

Mouse with flip-up button and recessed sensor mechansism
Reader Unit communicating with mouse
Sensor - Acoustic sensors recessed in mouse button
333
Reader
174
293
Determining Mechanism
162
Known Pattern Memory
335
Action Mechanism
Software functions

F16

162

Mouse with Recessed Sensor

Fig 162a



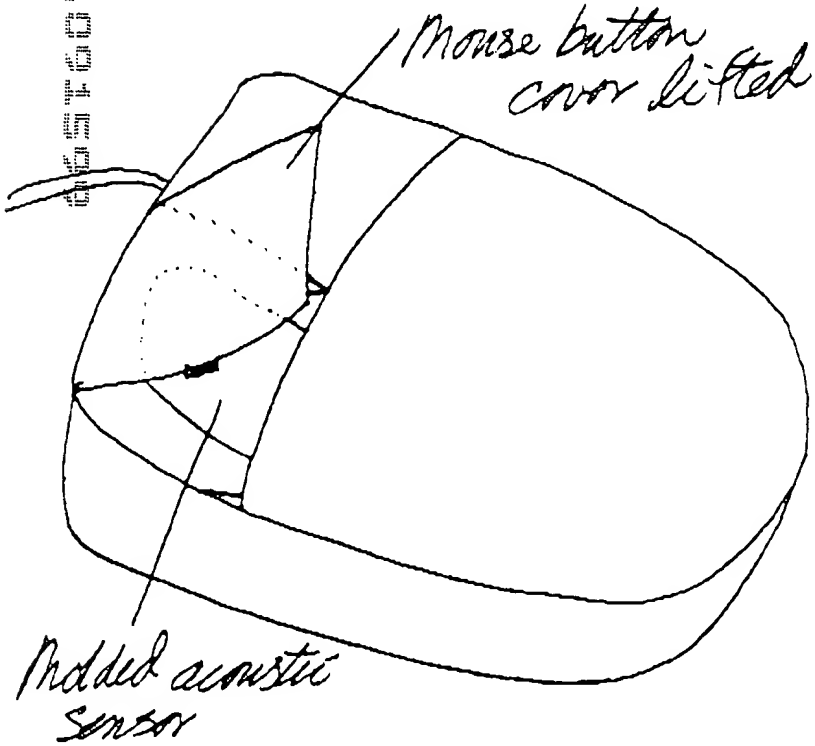
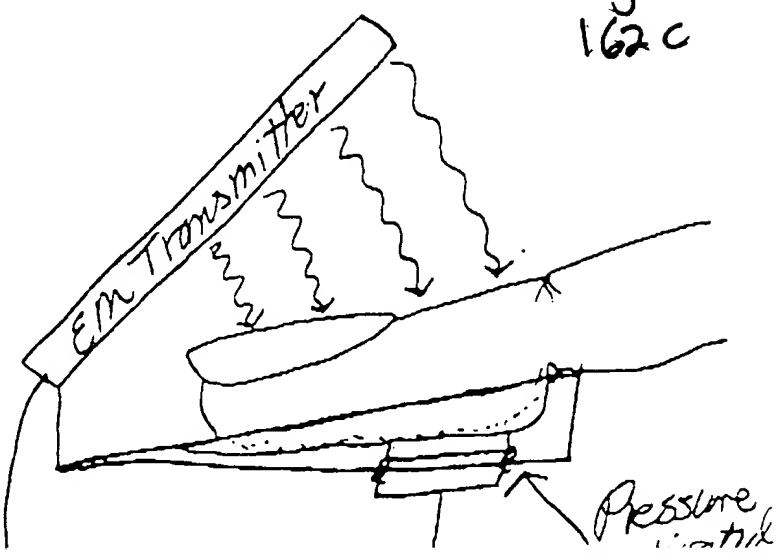
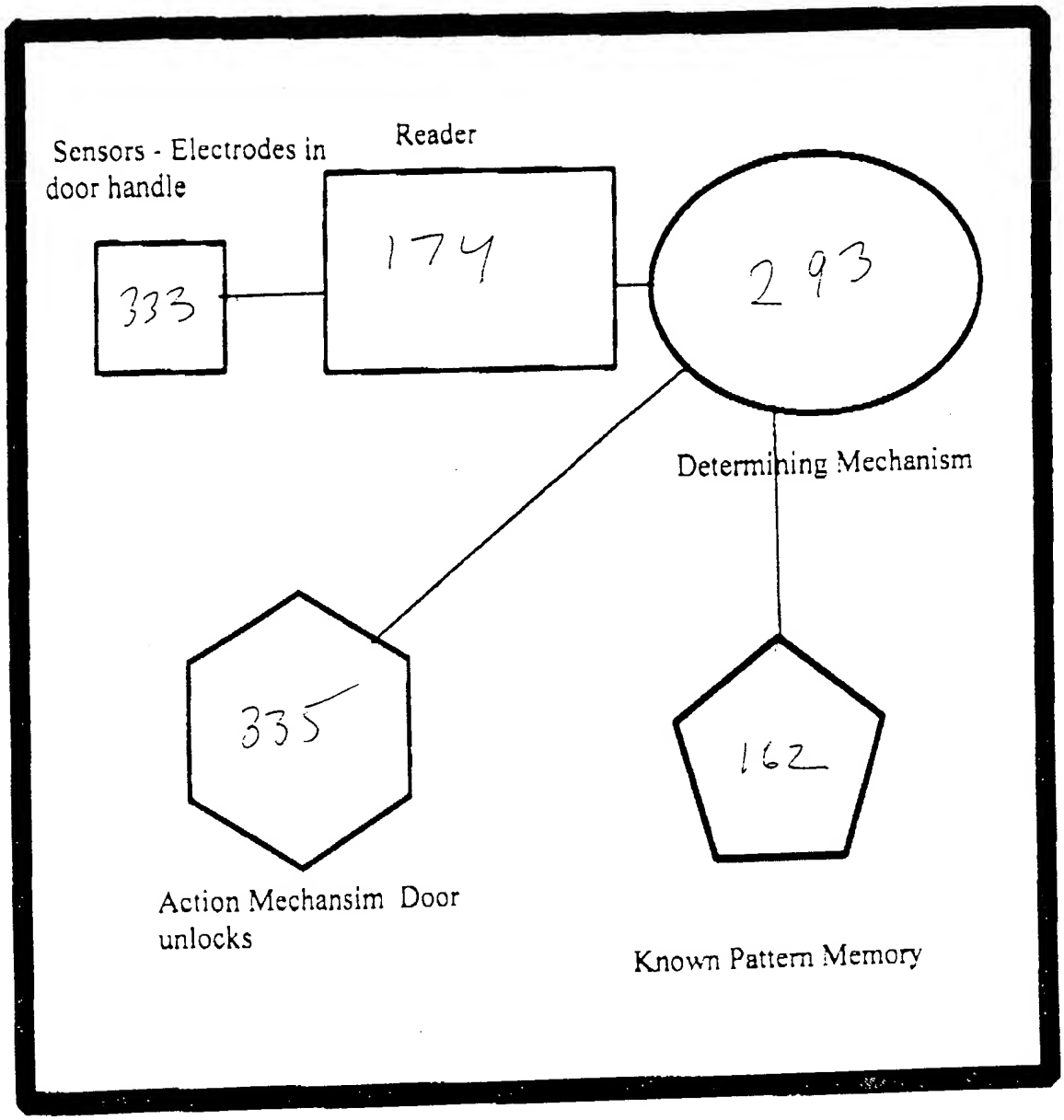


Fig 162b

Fig 162c





Biometric Door Handle

FIG 163

Handles With Electrode Sensors

Fig 163a

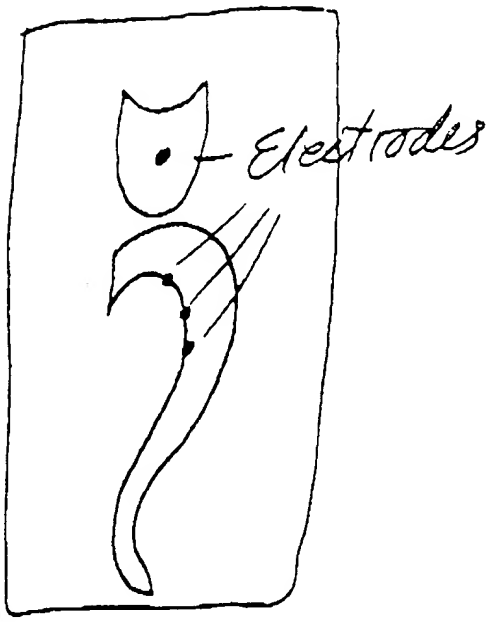


Fig 163b

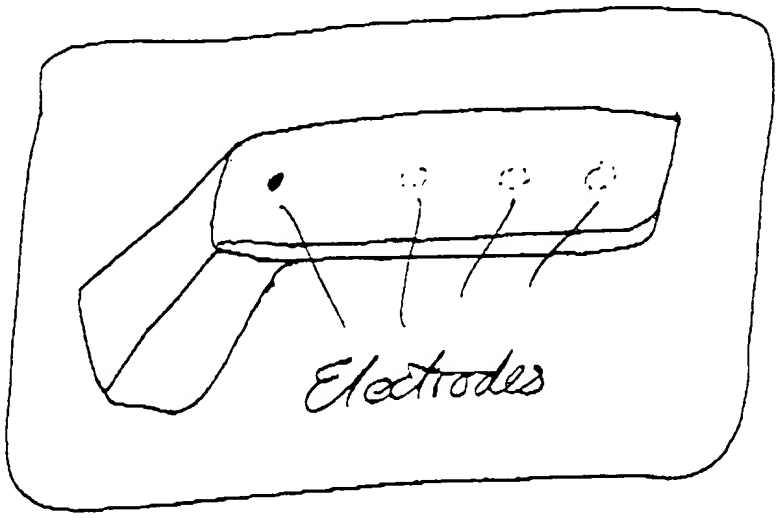


Fig 163c

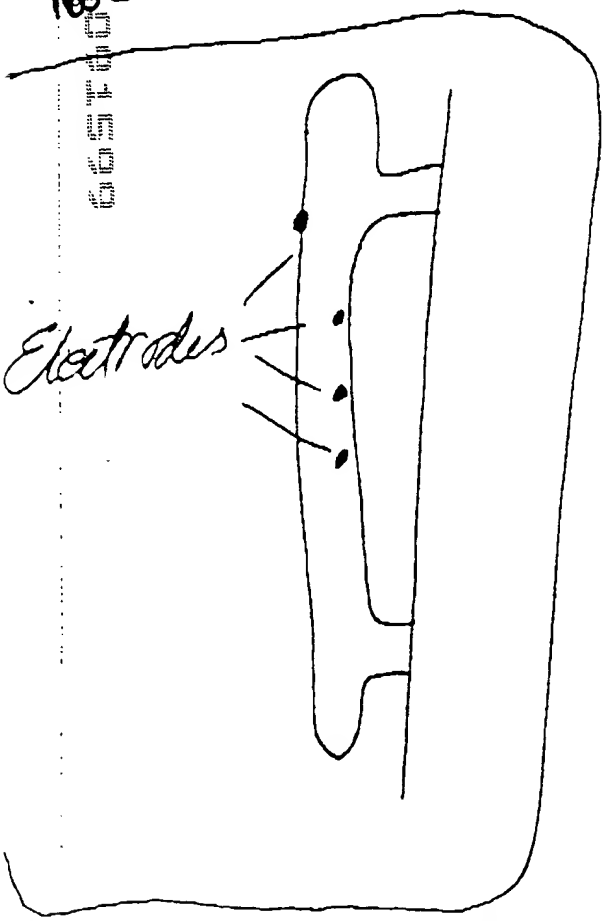
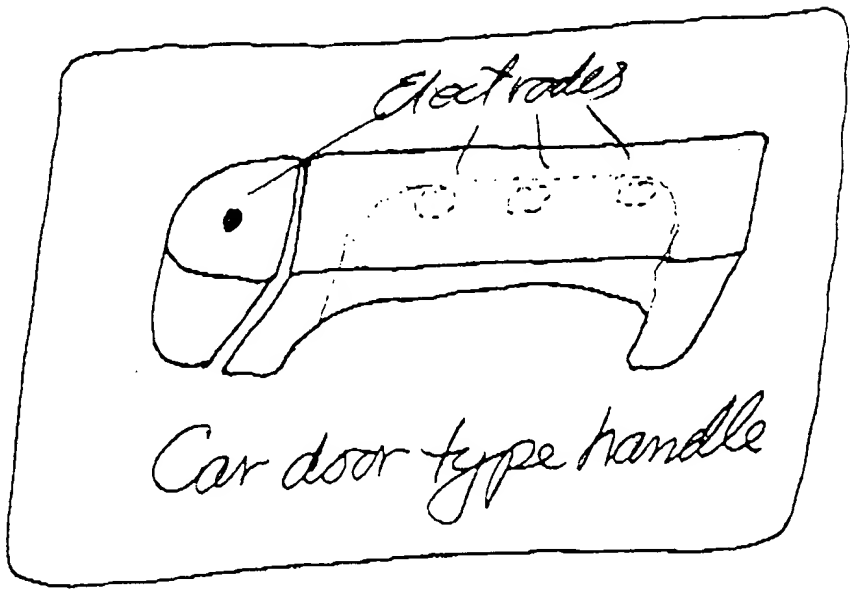


Fig 163d



Handles With Acoustic Sensors

Fig 163e

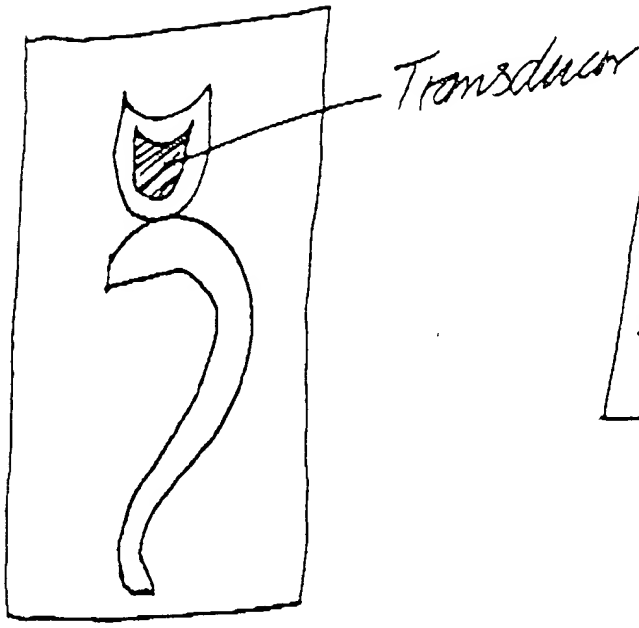
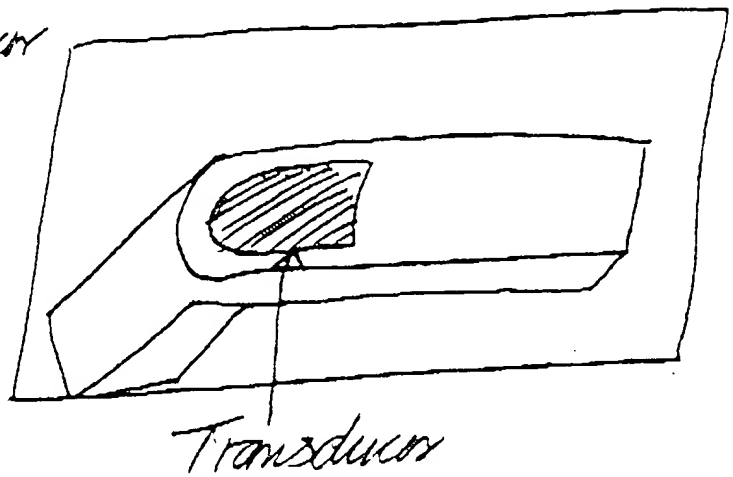


FIG. 163F



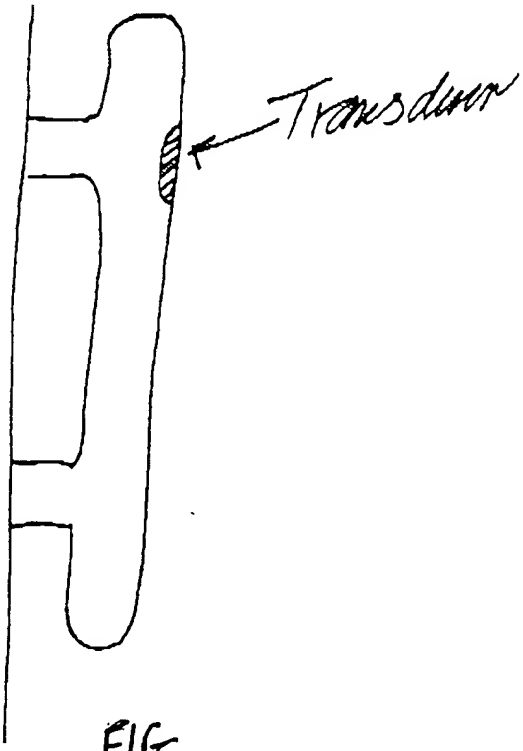
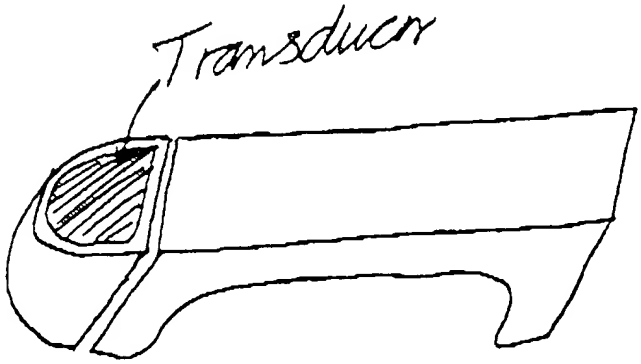


FIG 163G

FIG. 163H



Car door type handle

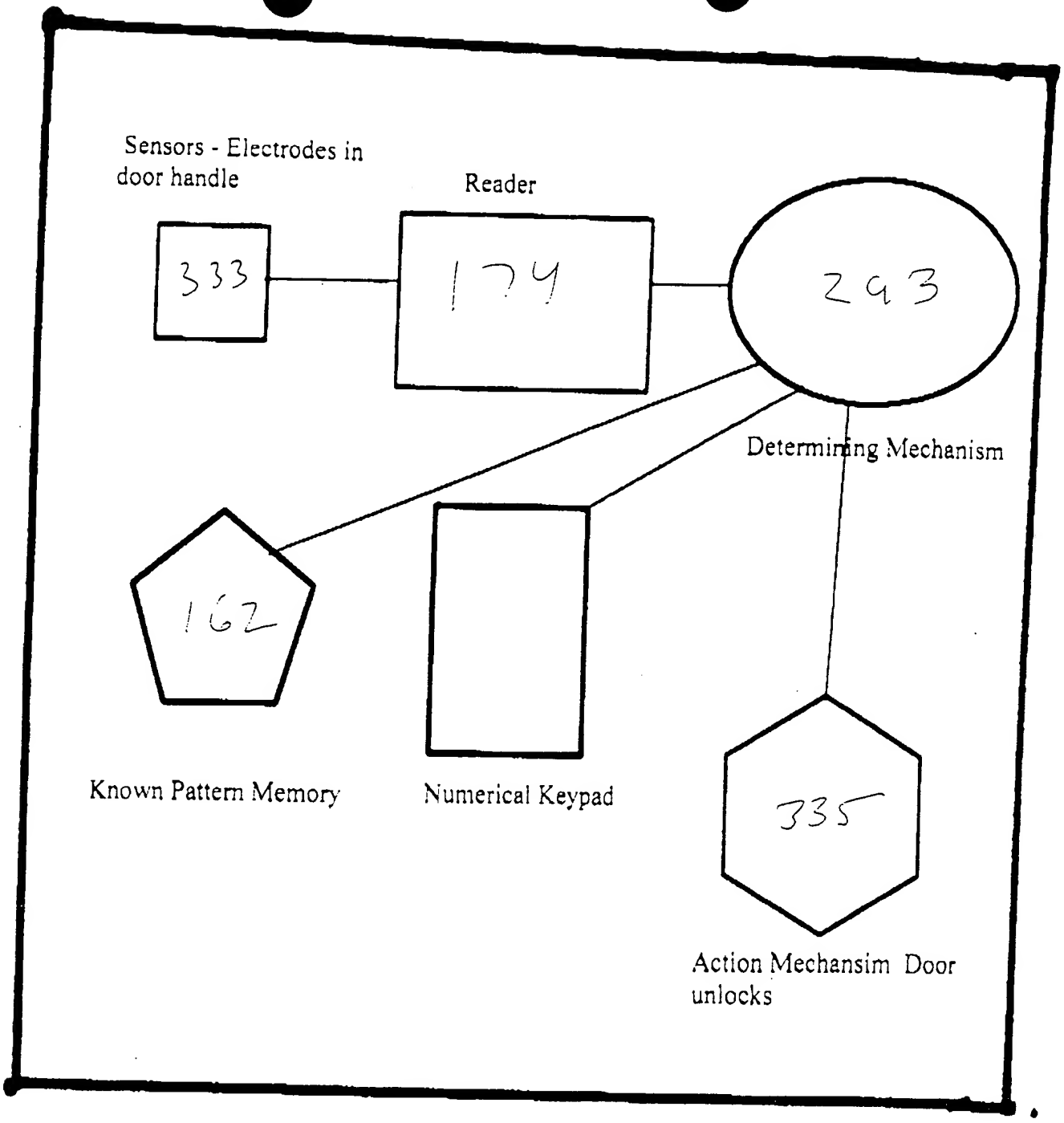

Sensors - Electrodes in door handle
Reader
333
174
293
Determining Mechanism
162
Known Pattern Memory
Numerical Keypad
335
Action Mechansim Door unlocks

FIG 164

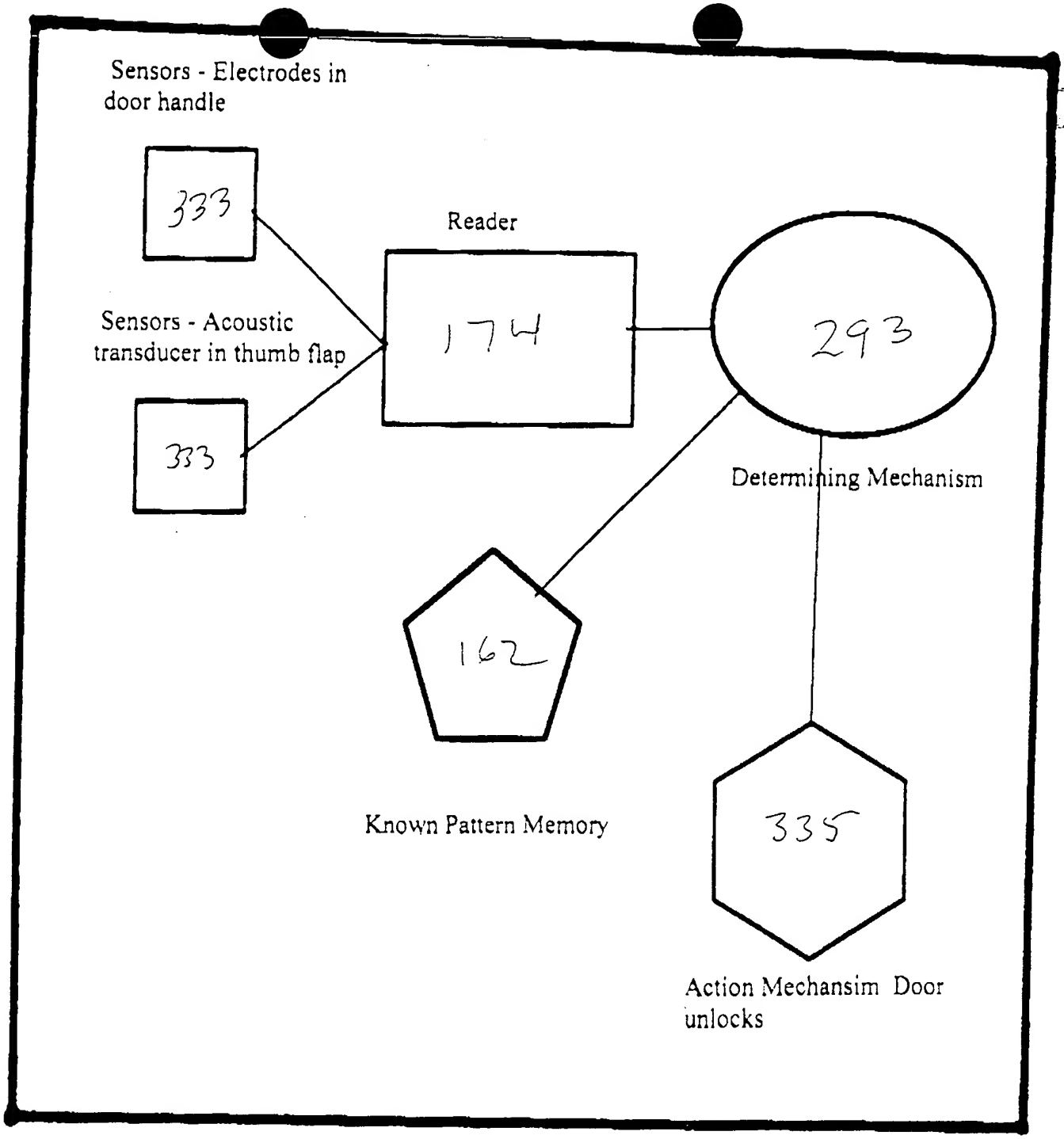
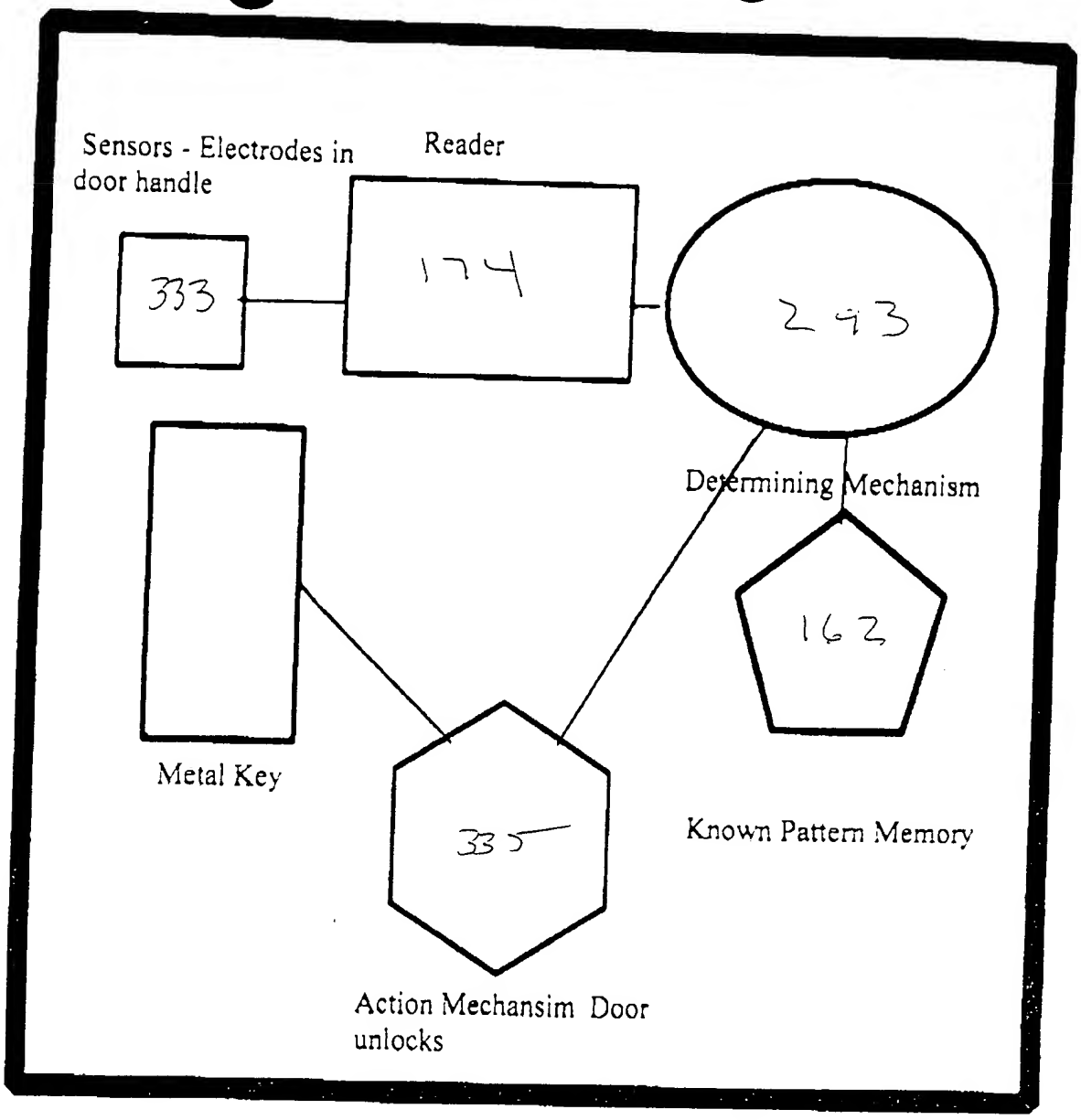

Sensors - Electrodes in door handle
333
Reader
Sensors - Acoustic transducer in thumb flap
174
293
333
Determining Mechanism
162
Known Pattern Memory
335
Action Mechansim Door unlocks

FIG 165



Biometric Door Handle

FIG 166

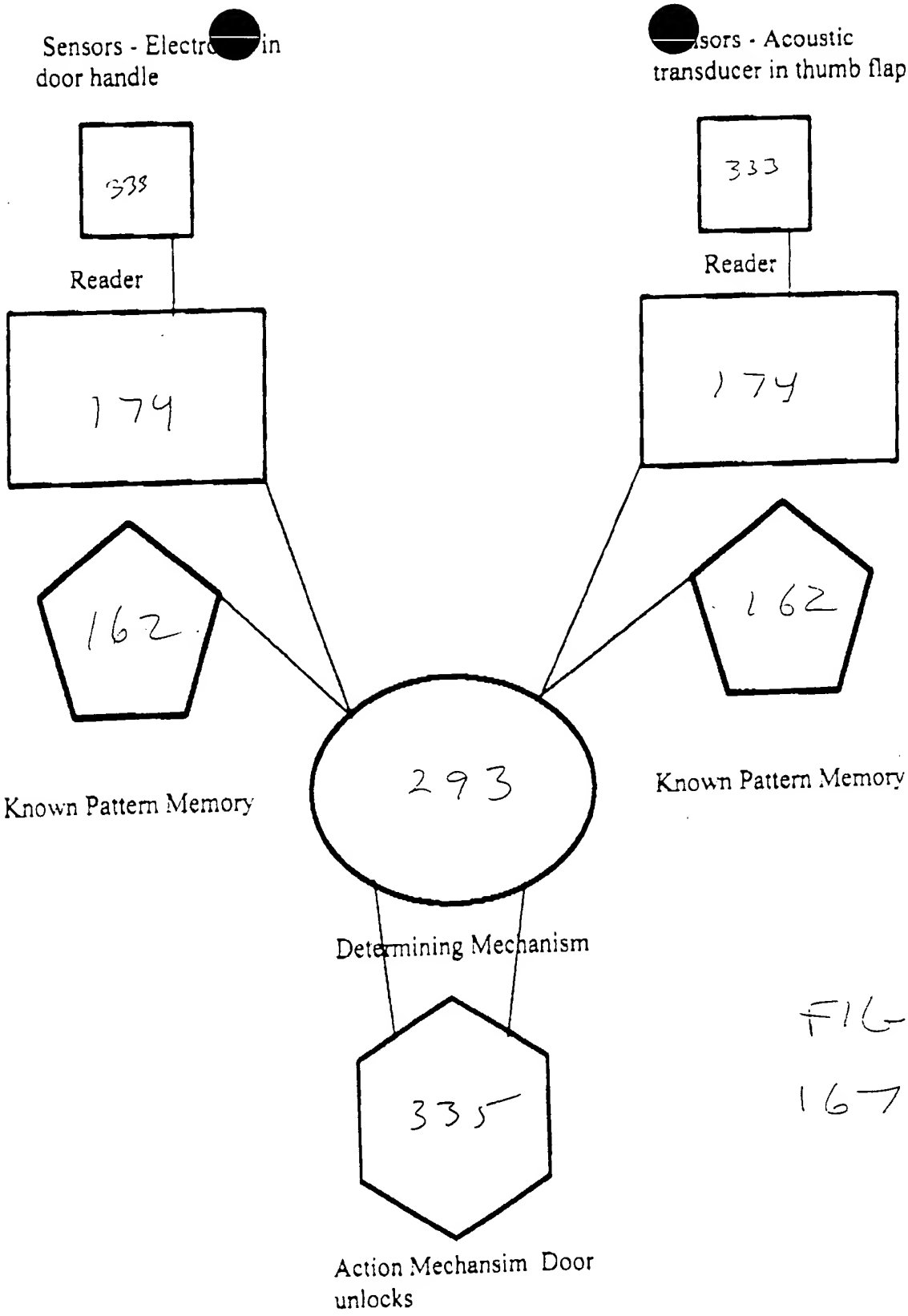

Sensors - Electro in door handle
Sensors - Acoustic transducer in thumb flap
338
333
Reader
Reader
174
174
162
162
Known Pattern Memory
Known Pattern Memory
293
Determining Mechanism
335
Action Mechansim Door unlocks

FIG 167

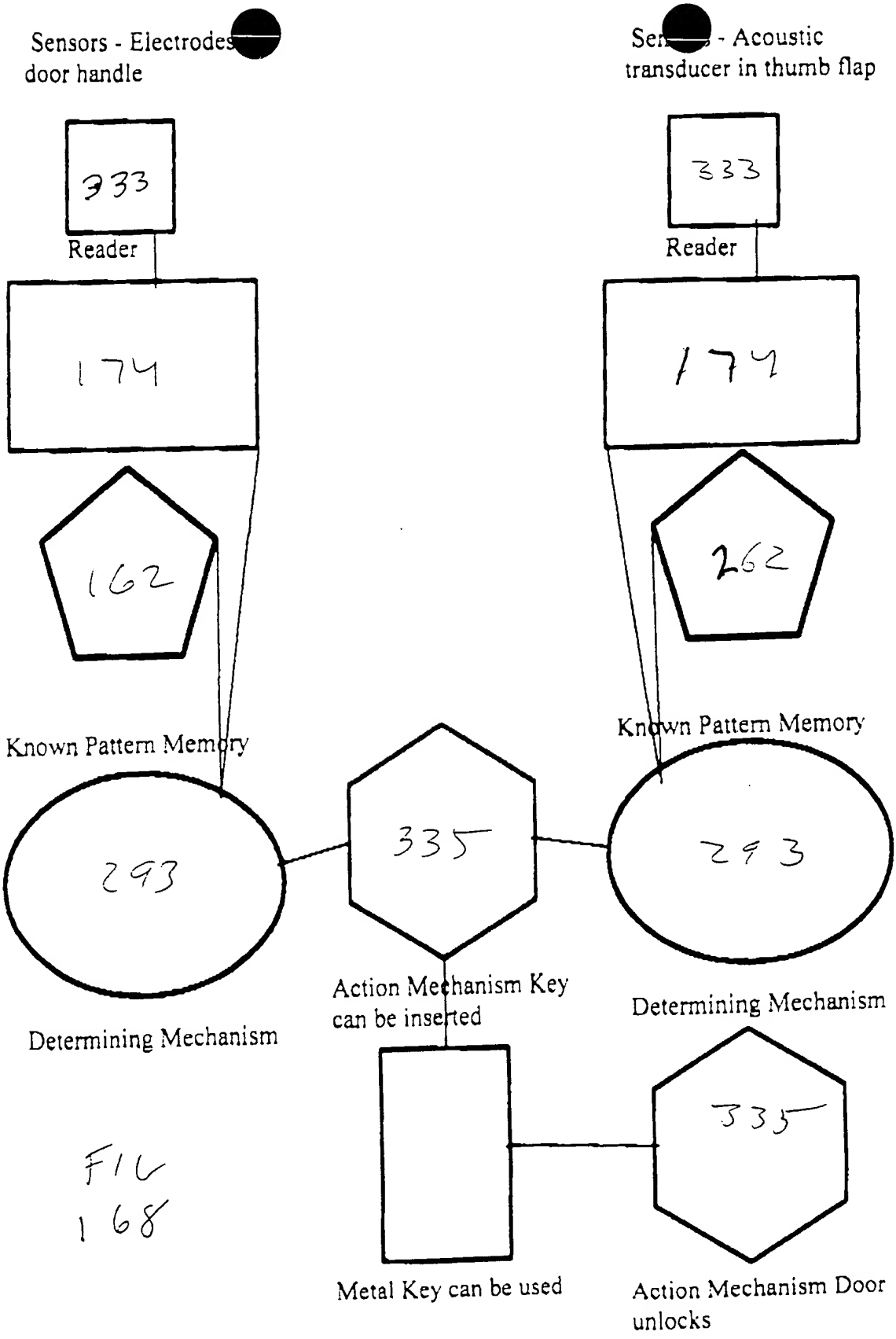

Sensors - Electrodes door handle
Sensors - Acoustic transducer in thumb flap
333
Reader
174
162
Known Pattern Memory
293
Determining Mechanism
335
Action Mechanism Key can be inserted
333
Reader
174
262
Known Pattern Memory
293
Determining Mechanism
335
Metal Key can be used
Action Mechanism Door unlocks

FIG 168

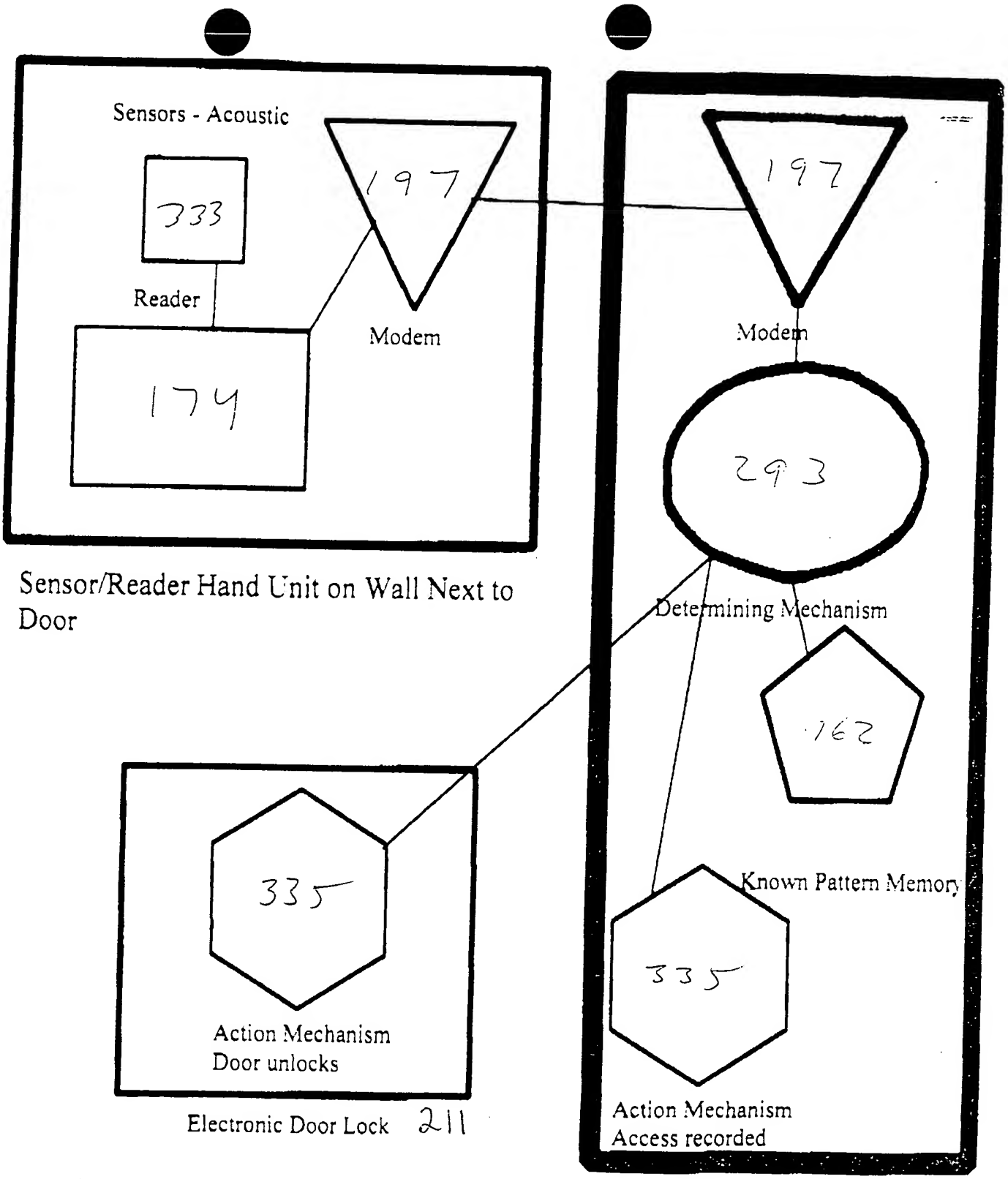
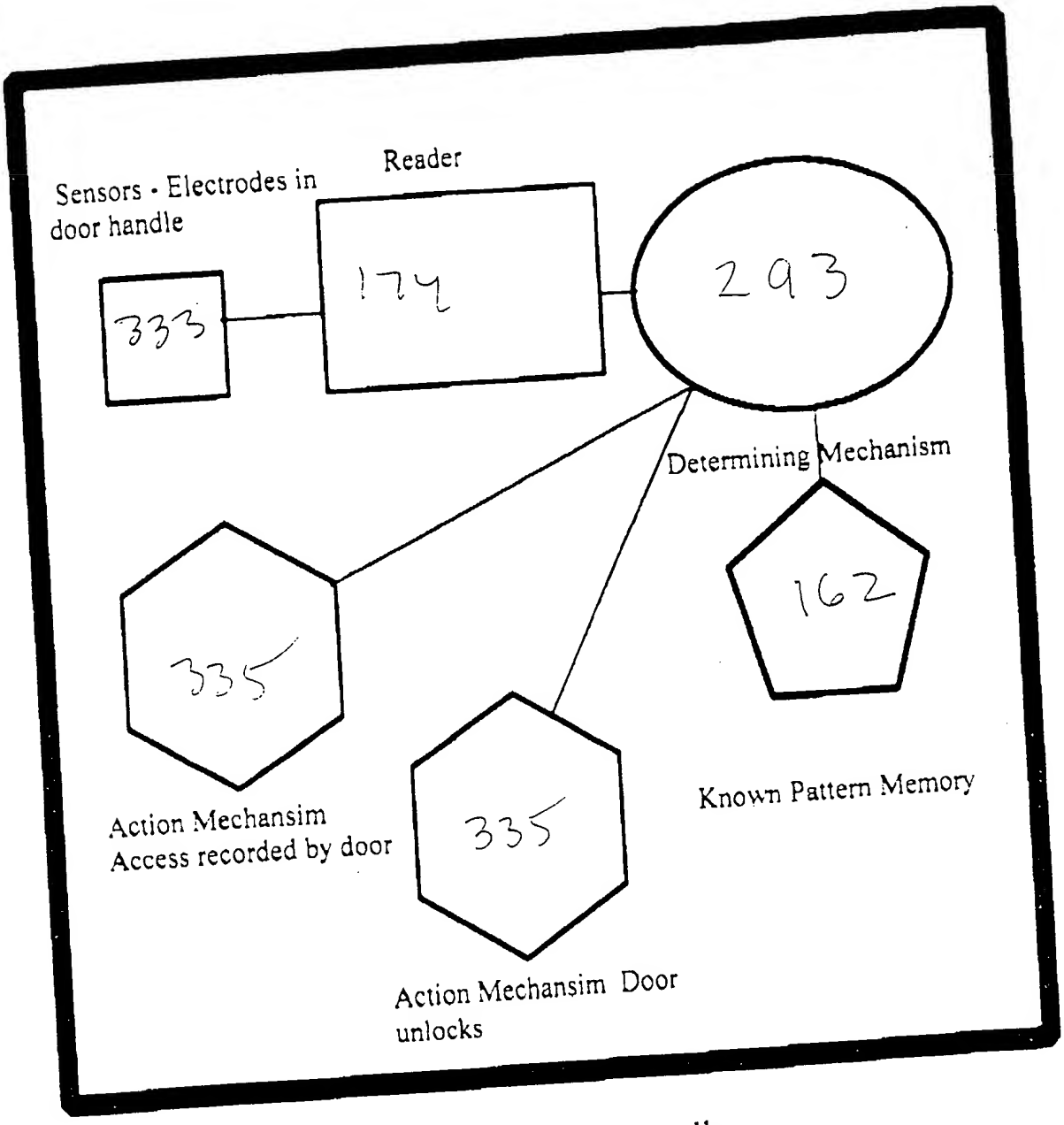

Sensors - Acoustic
333
Reader
174
197
Modem
Sensor/Reader Hand Unit on Wall Next to Door
197
Modem
293
Determining Mechanism
162
Known Pattern Memory
335
Action Mechanism
Access recorded
335
Action Mechanism
Door unlocks
Electronic Door Lock 211
Laboratory Computer
158

FIG 169

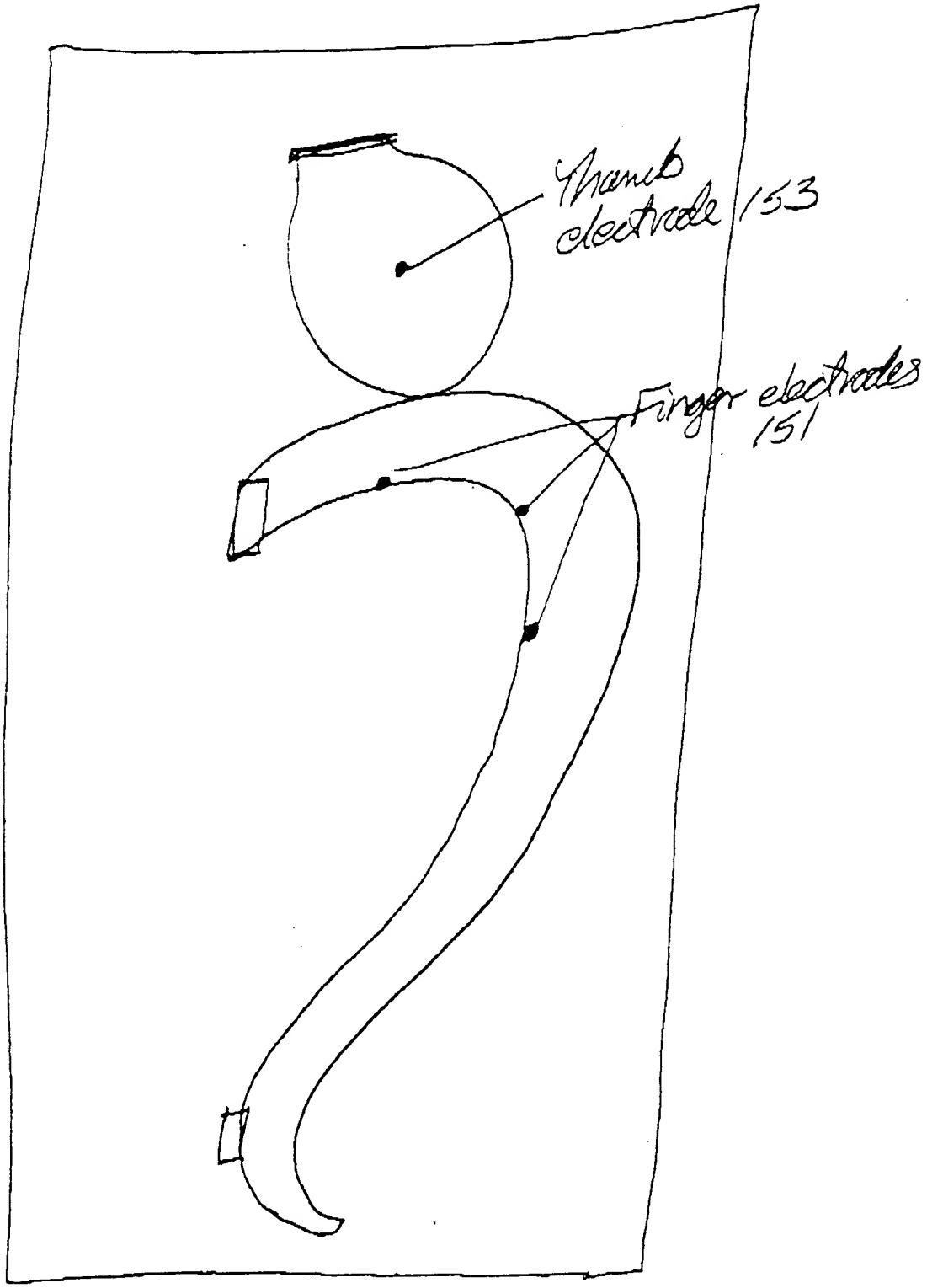


Biometric Door Handle

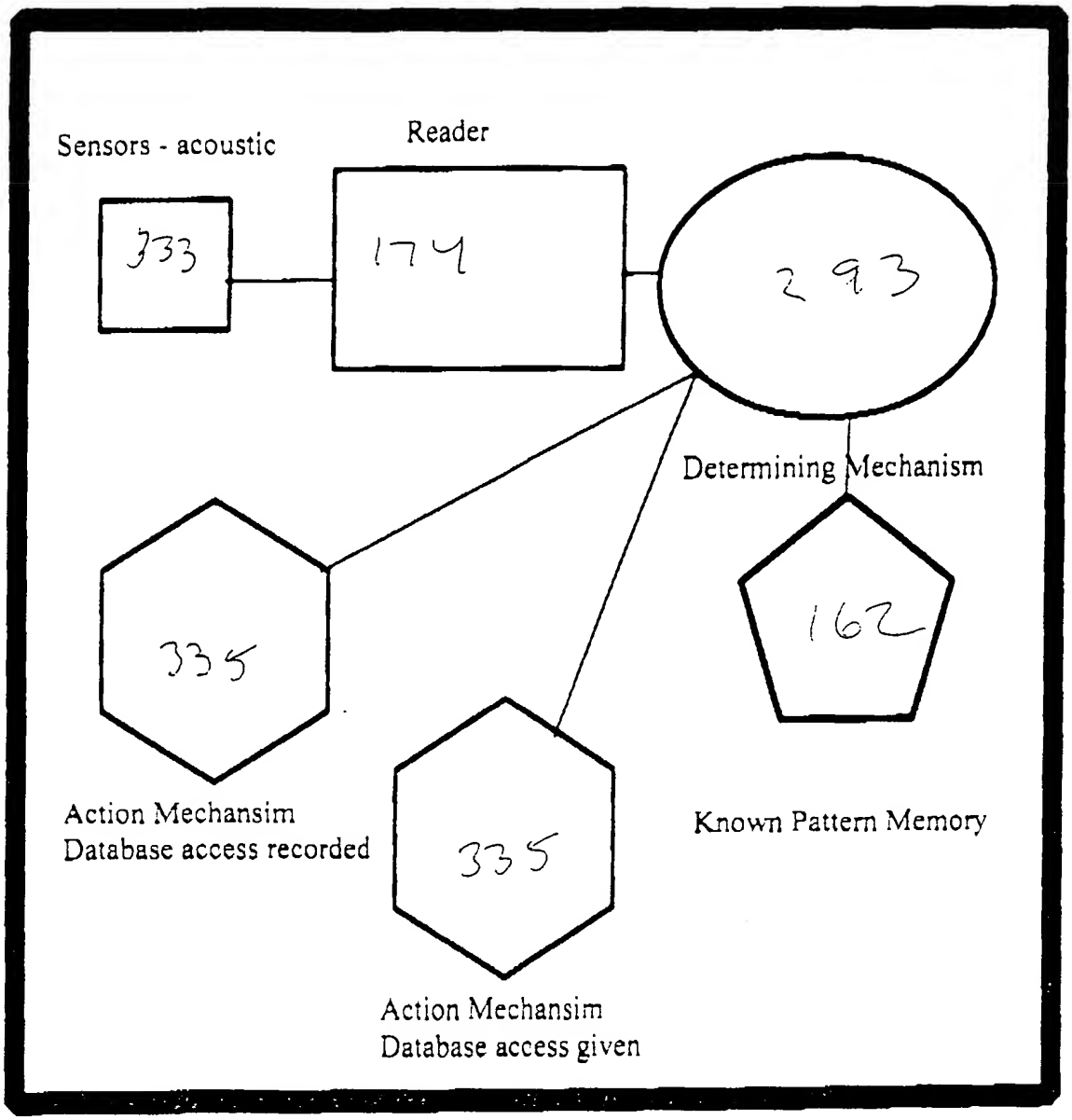
FIG 170

Door Handle Electrodes

Fig 170a



SUBSTITUTE SHEET (RULE 26)



Restricted Database Access Unit on Side of Monitor

FIG 171

Shell Handpiece

FIG 171a

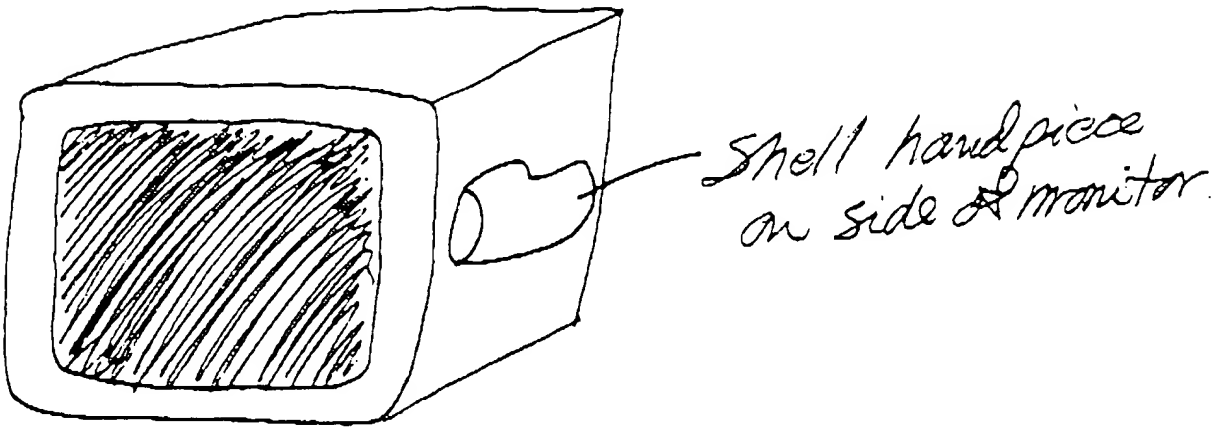
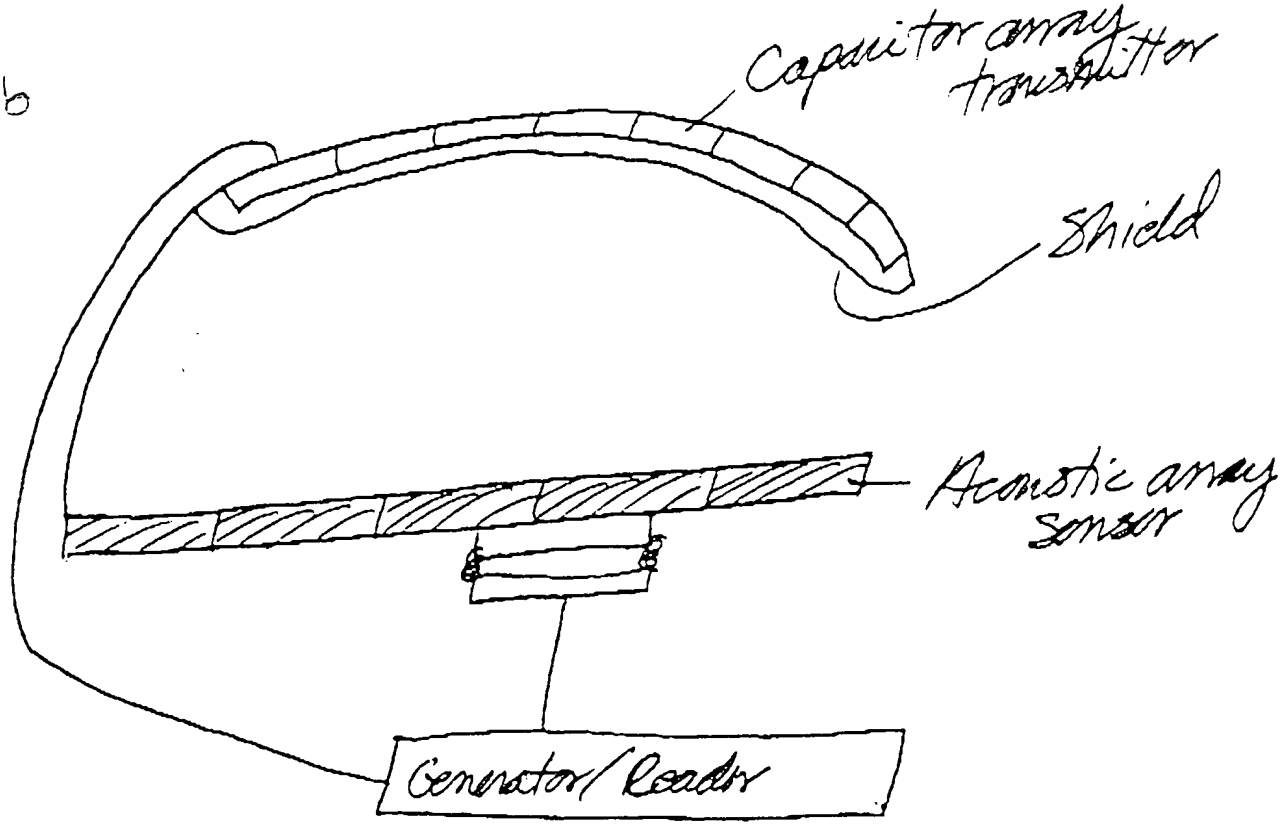
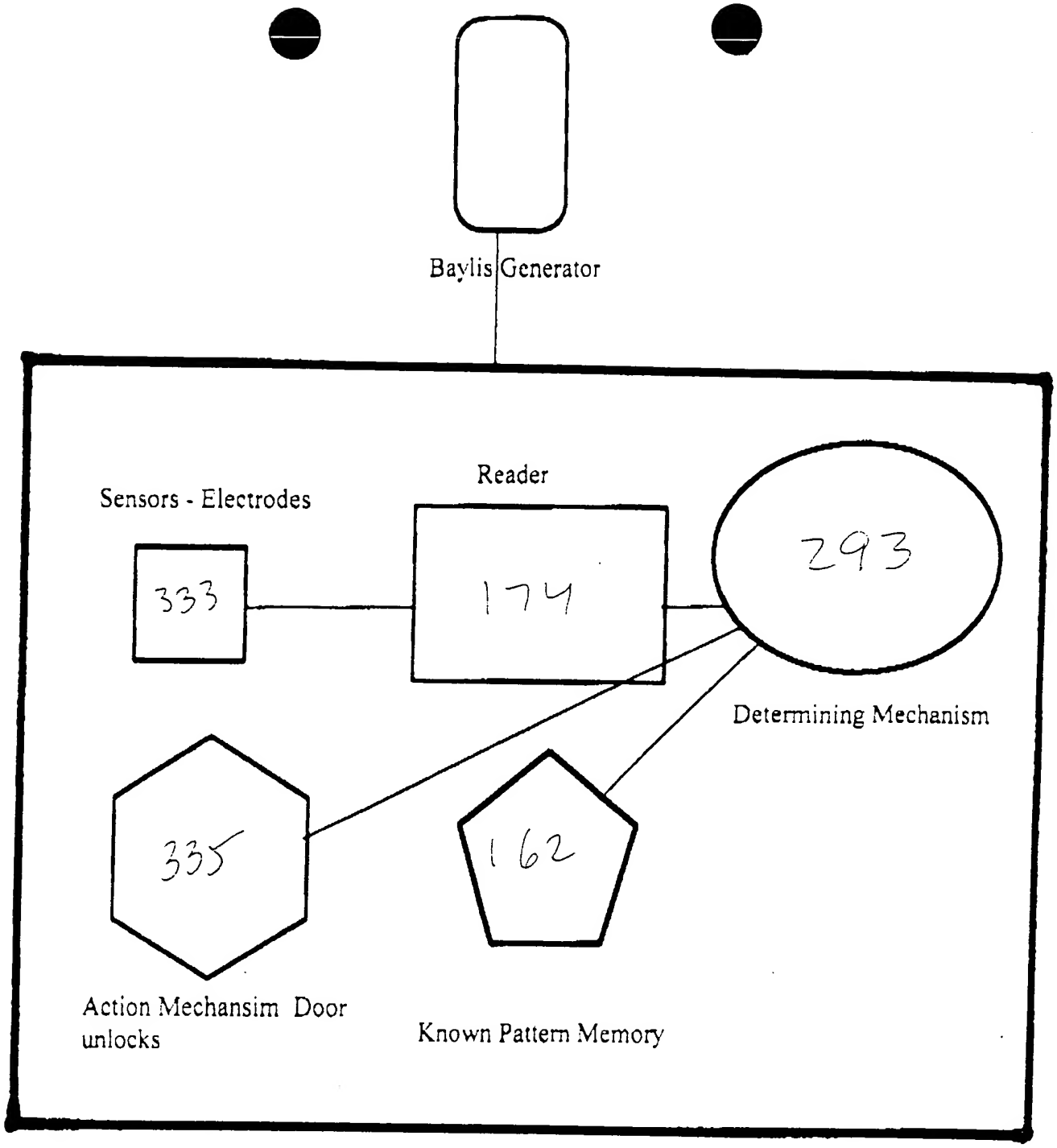
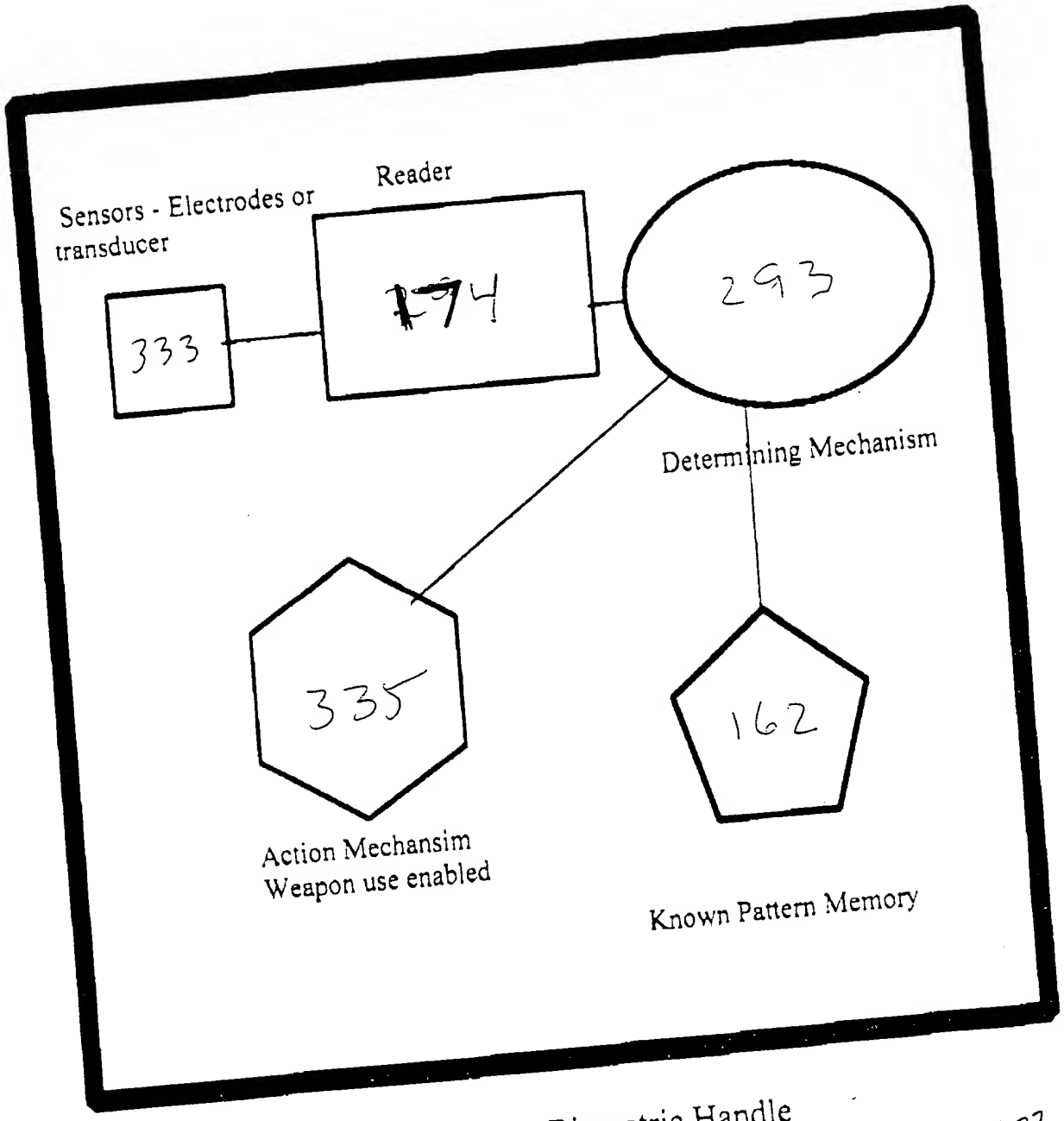


FIG 171b





Biometric Door Lock FIG 172



Goo Weapon Biometric Handle

FIG 173

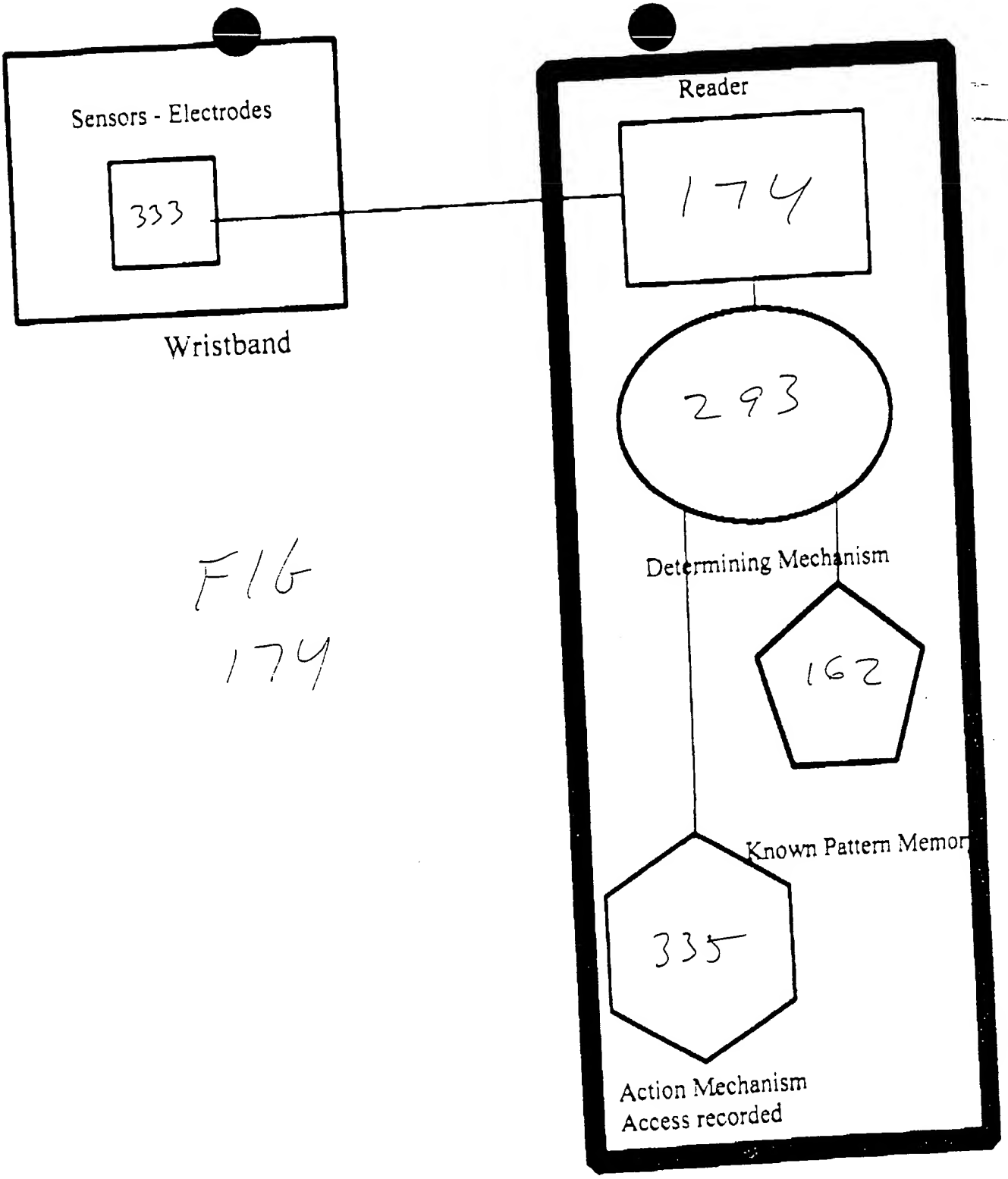
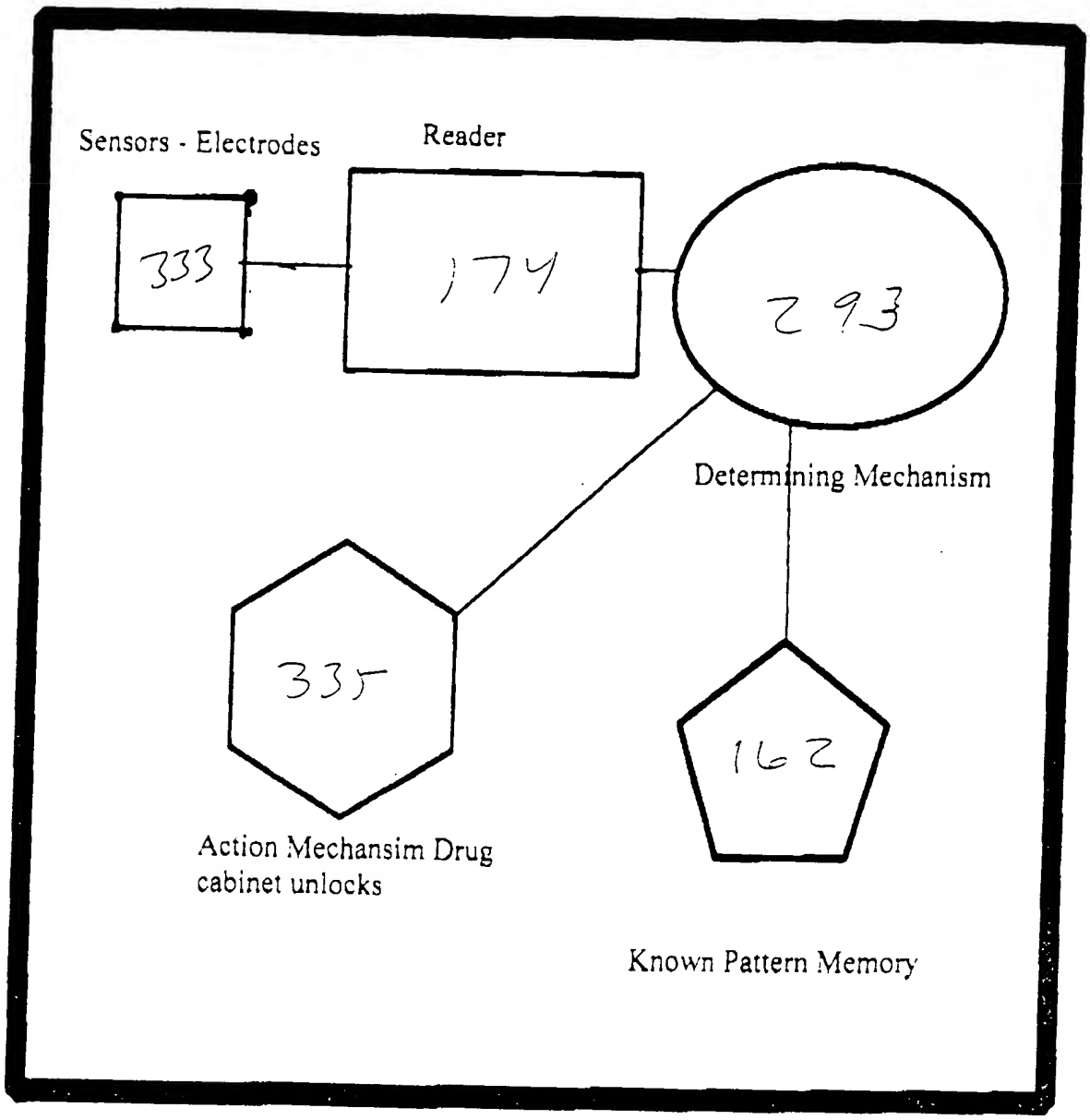


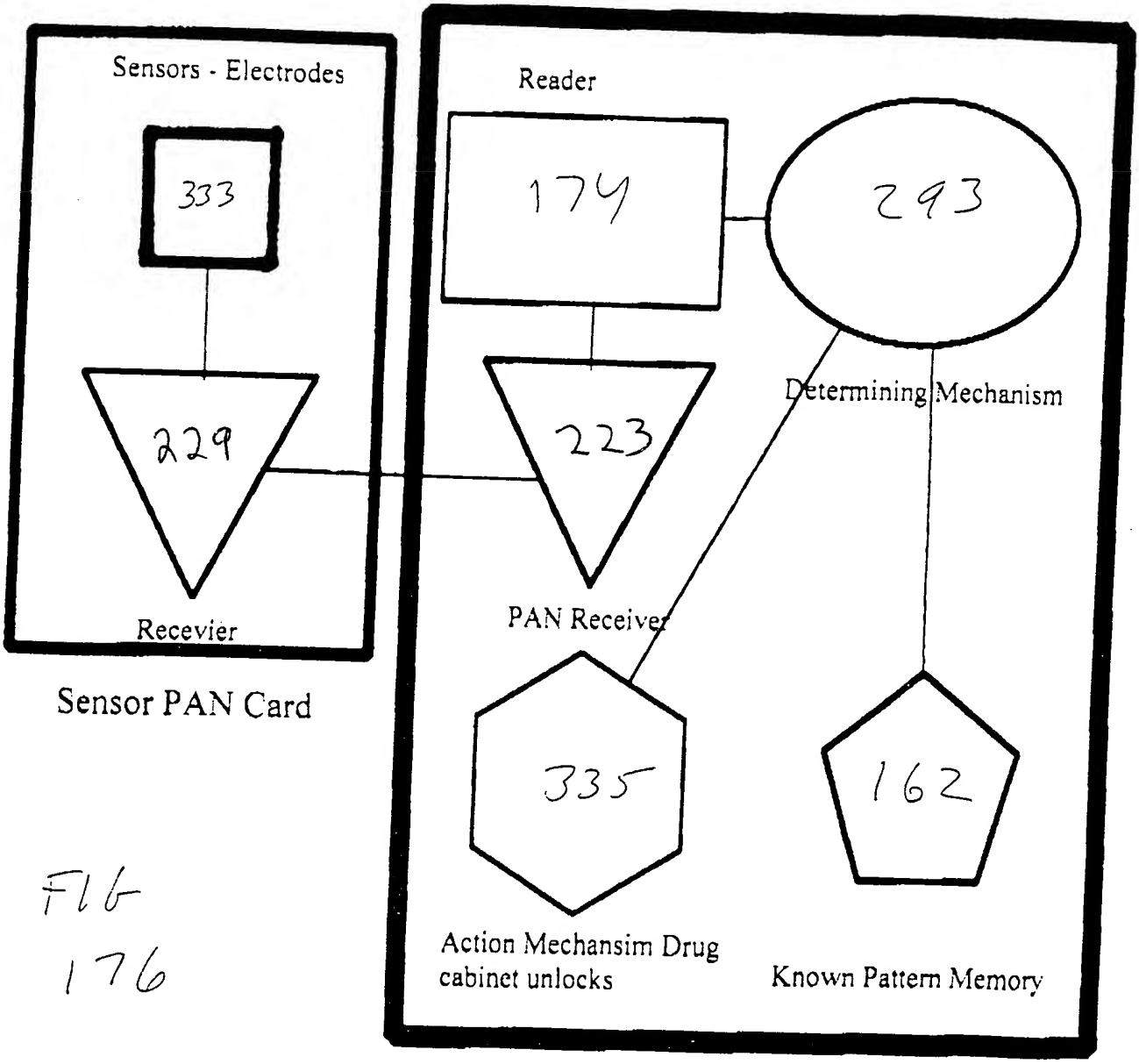
FIG 174

Portable Reader Unit Carried by Guards



Drug Cabinet Handpiece/Lock Mechanism

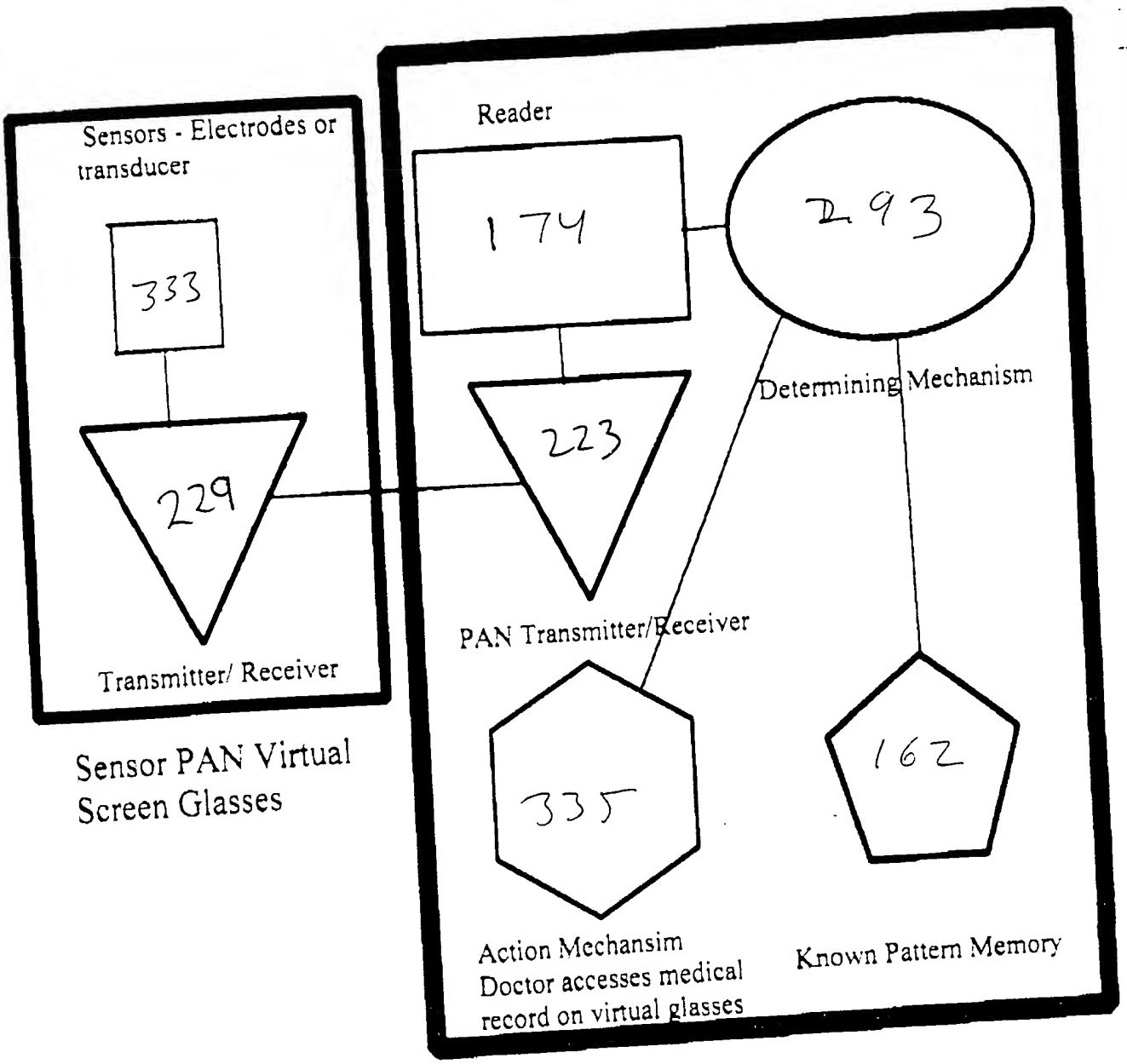
FIG 175



Sensor PAN Card

Drug Cabinet PAN/Lock Mechanism

Fig 176


Sensors - Electrodes or transducer
333
229
Transmitter/ Receiver
Sensor PAN Virtual Screen Glasses
Reader
174
293
223
Determining Mechanism
PAN Transmitter/Receiver
335
162
Action Mechansim
Doctor accesses medical record on virtual glasses
Known Pattern Memory
Central Records Computer

FIG

177

Sensa Virtual Screen Glasses

Fig 177a

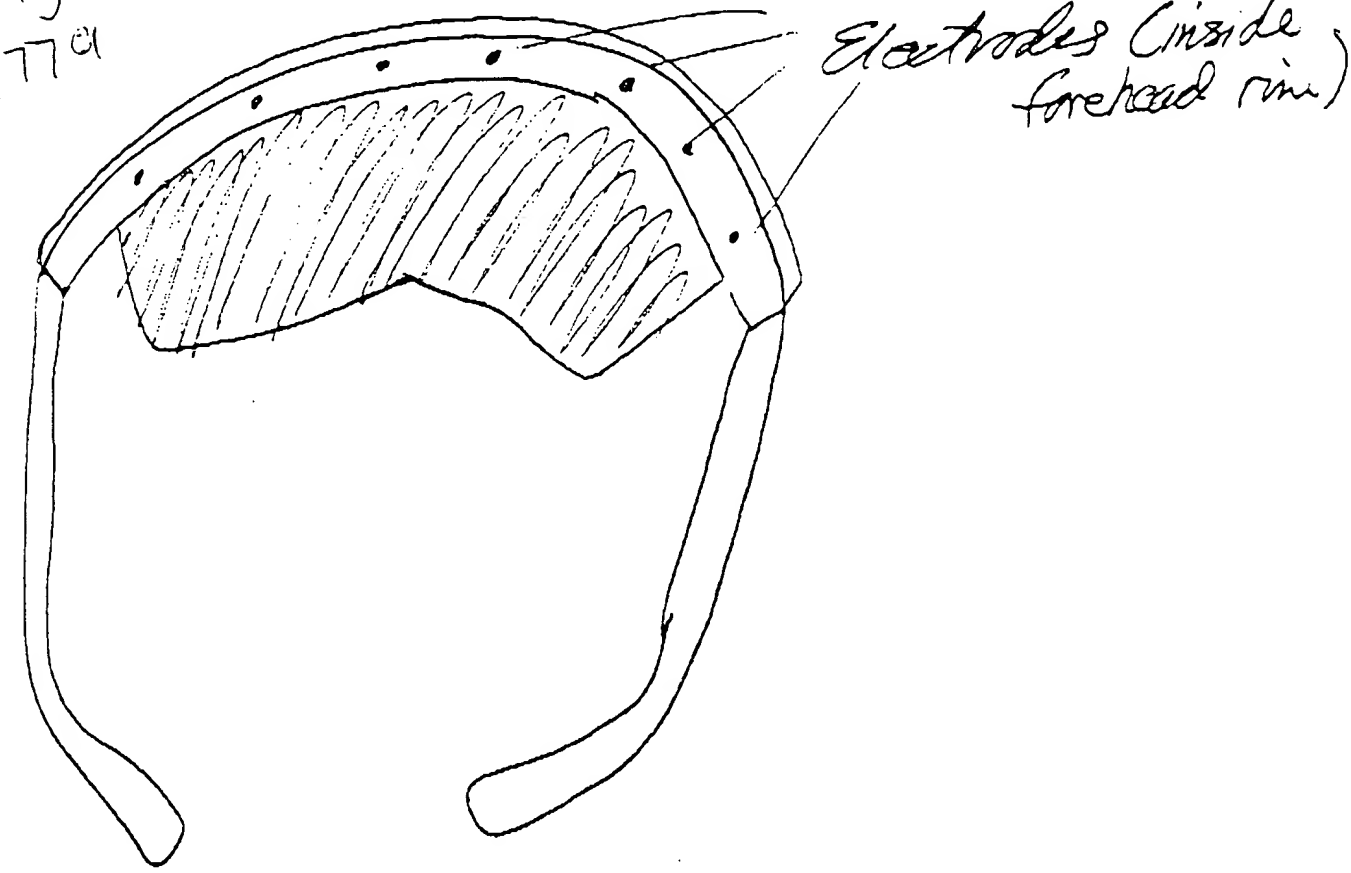


Fig 177b

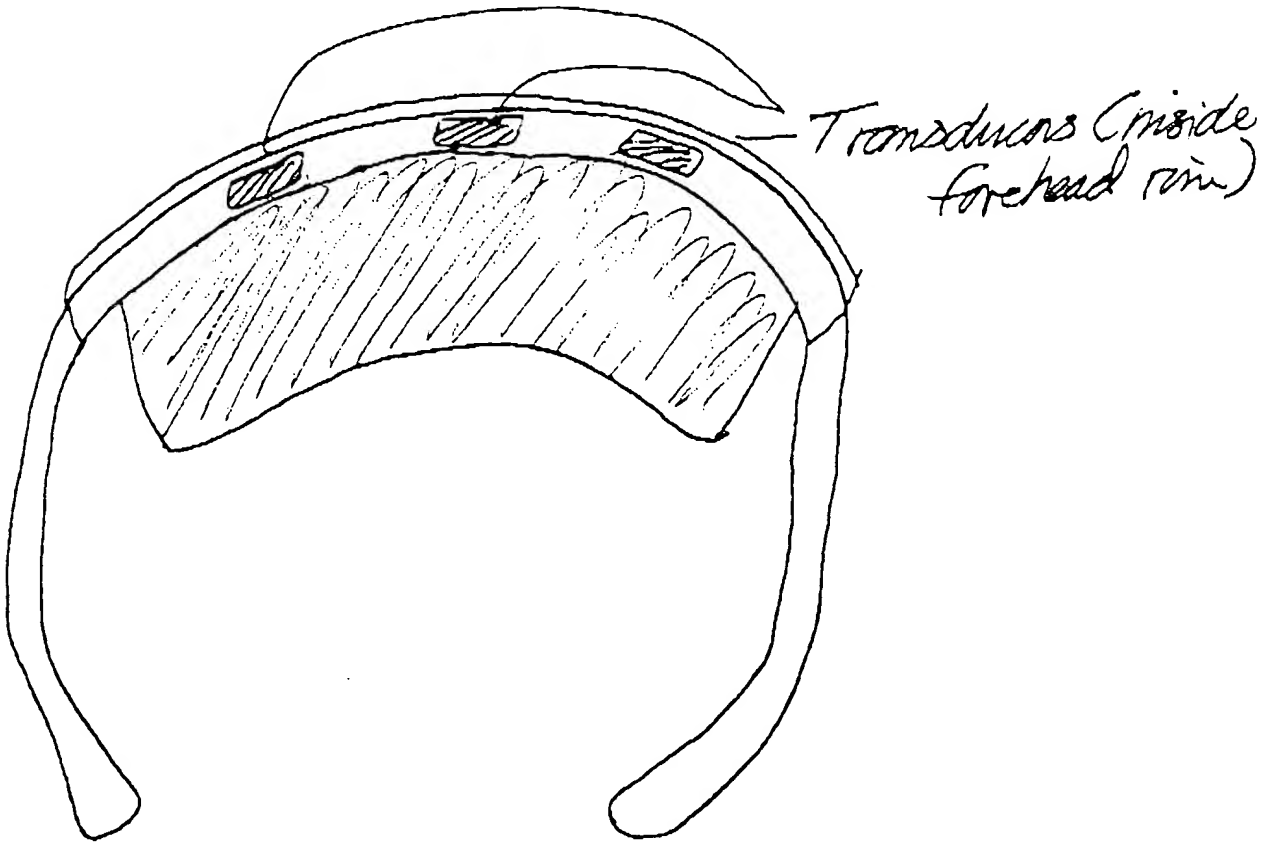
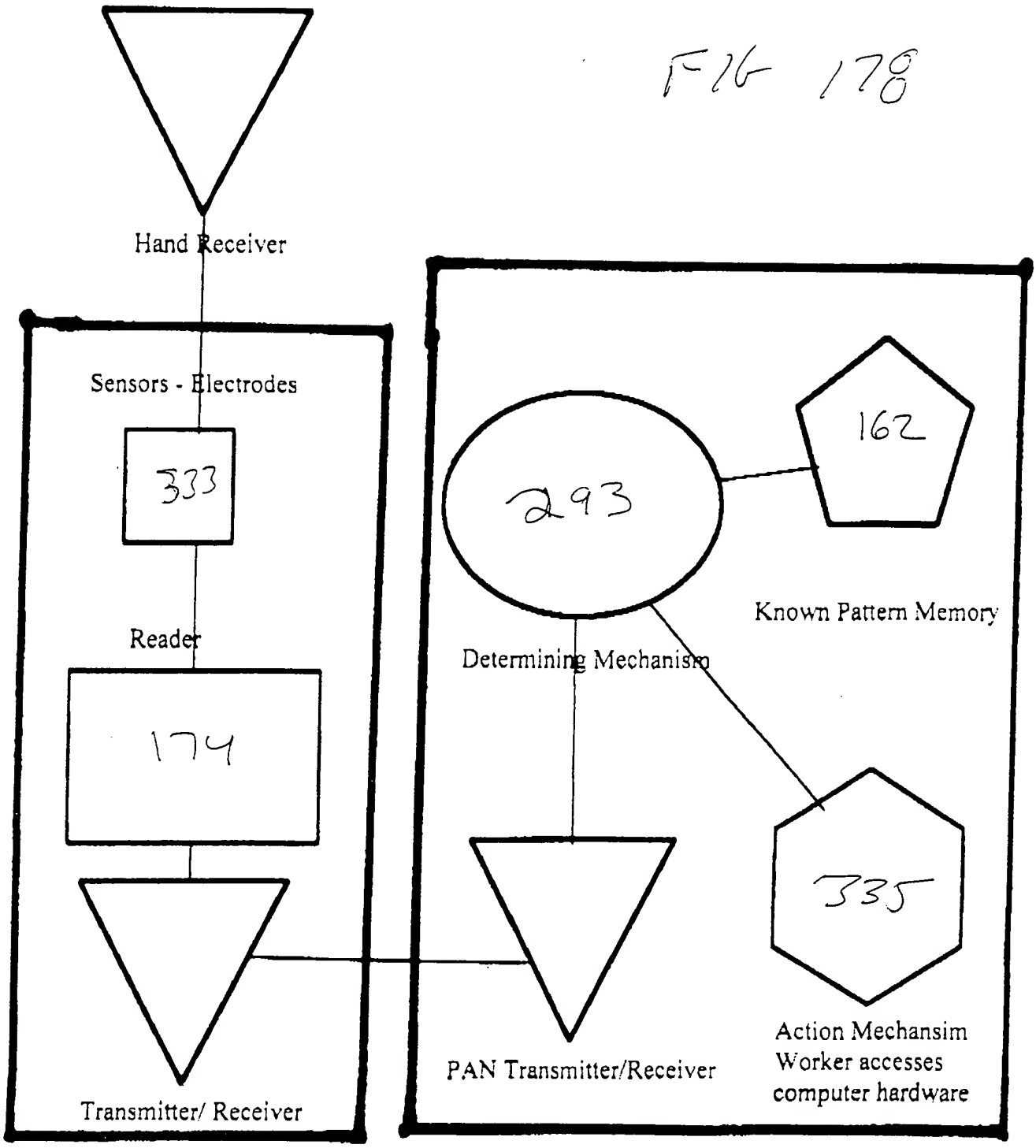


FIG 178



Contactless Electrode Smart Card

Antenna/Coupler Unit

Scalloped Electrode Card

Fig 178a

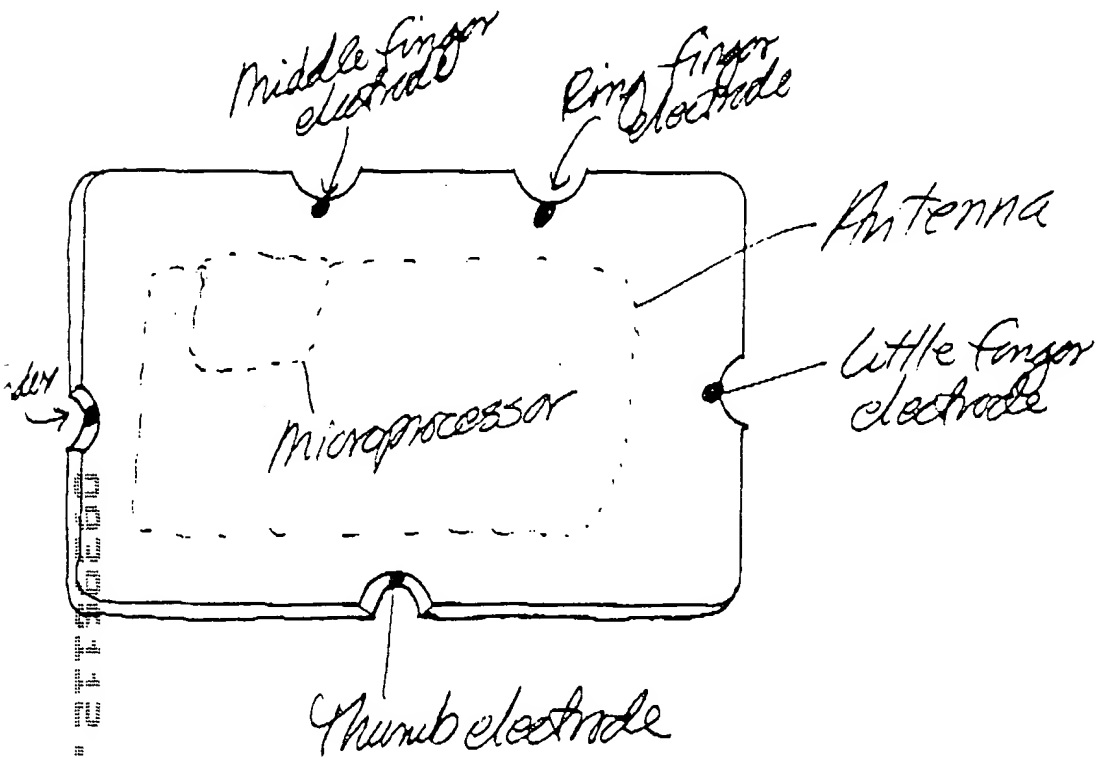
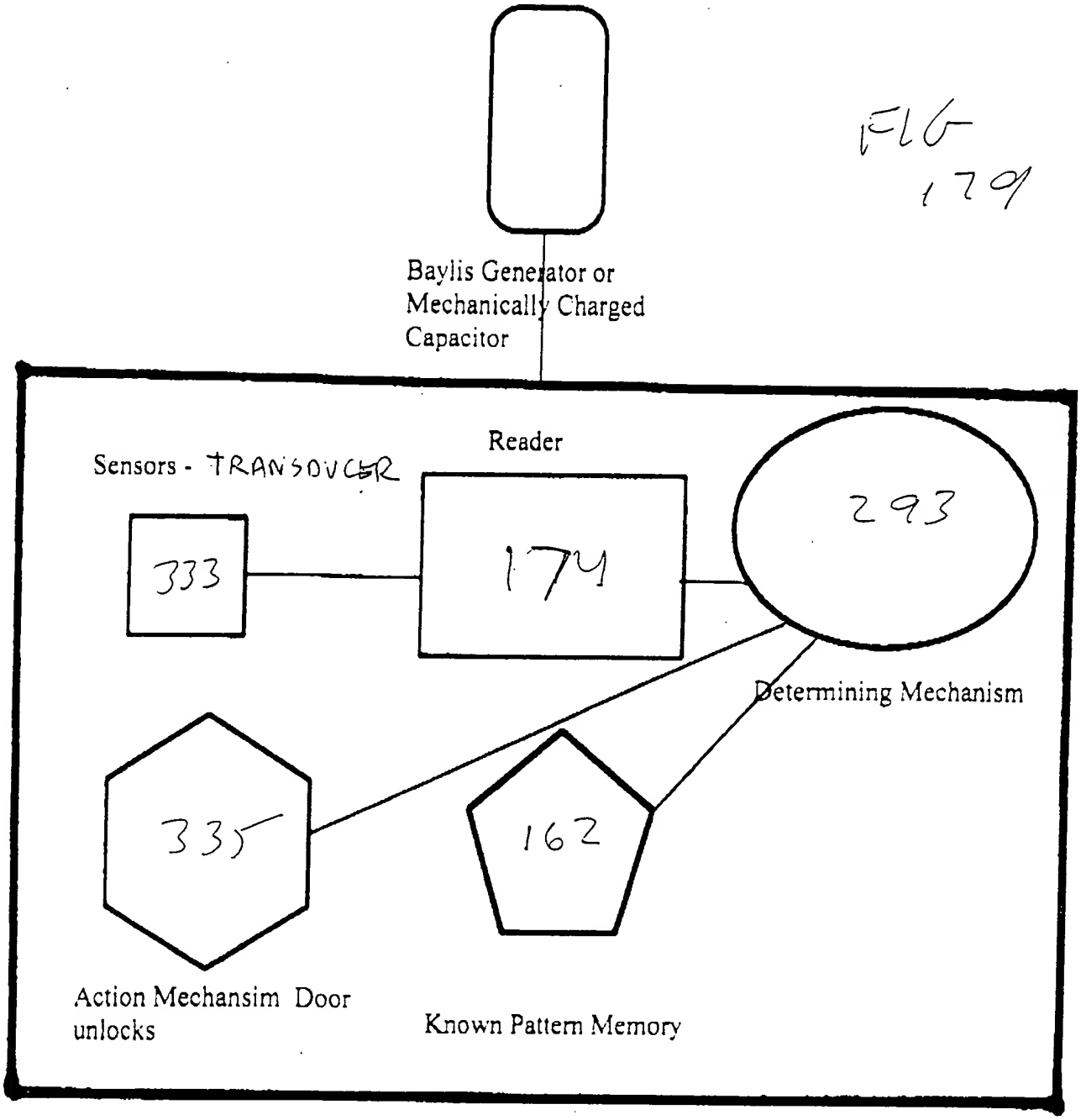


FIG 179



TV or Radio Biometric Lock

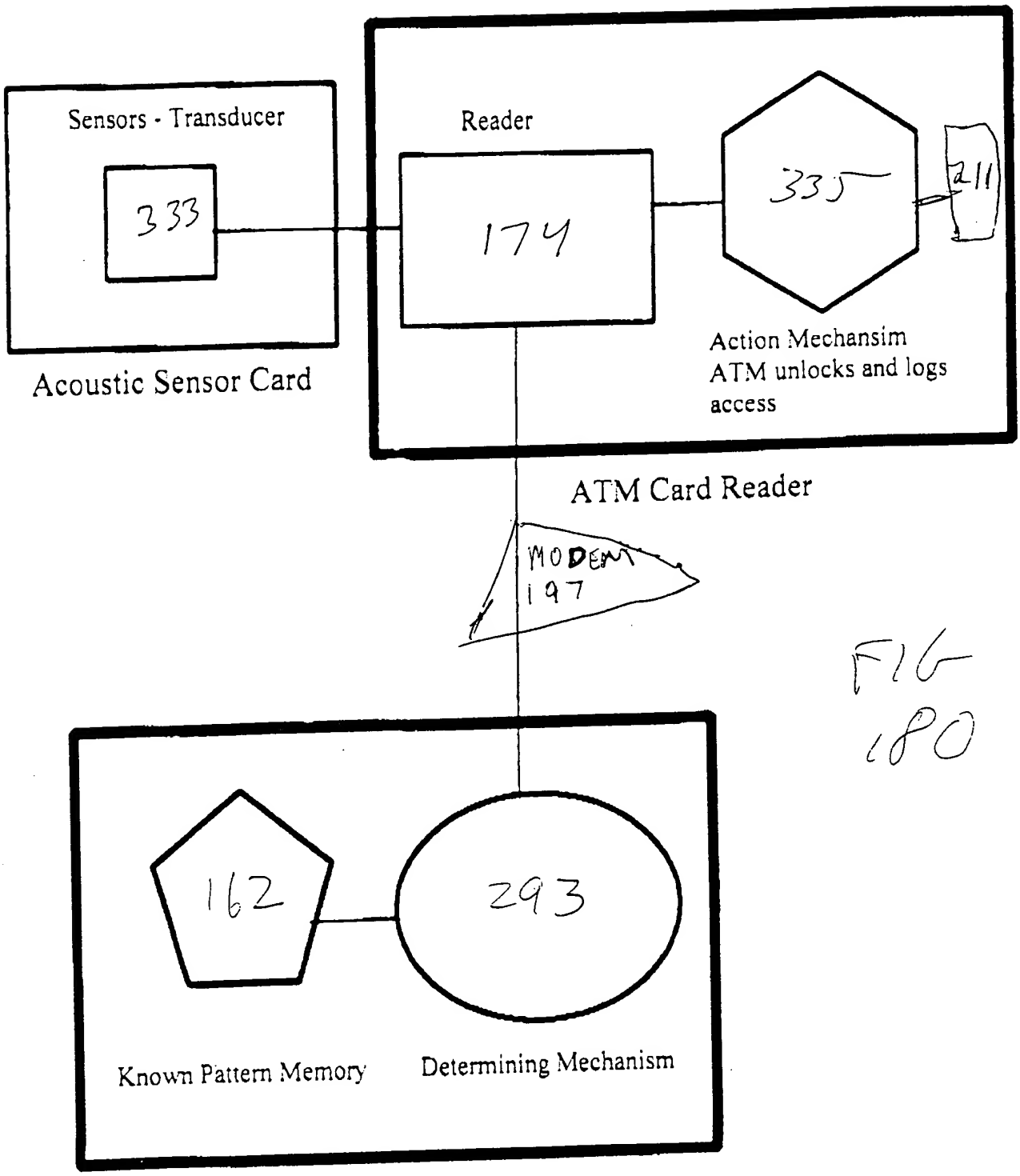

Sensors - Transducer
333
Acoustic Sensor Card
Reader
174
335
211
Action Mechansim
ATM unlocks and logs access
ATM Card Reader
MODEM
197
162
293
Known Pattern Memory
Determining Mechanism
Bank ATM Access Computer 158

FIG 180

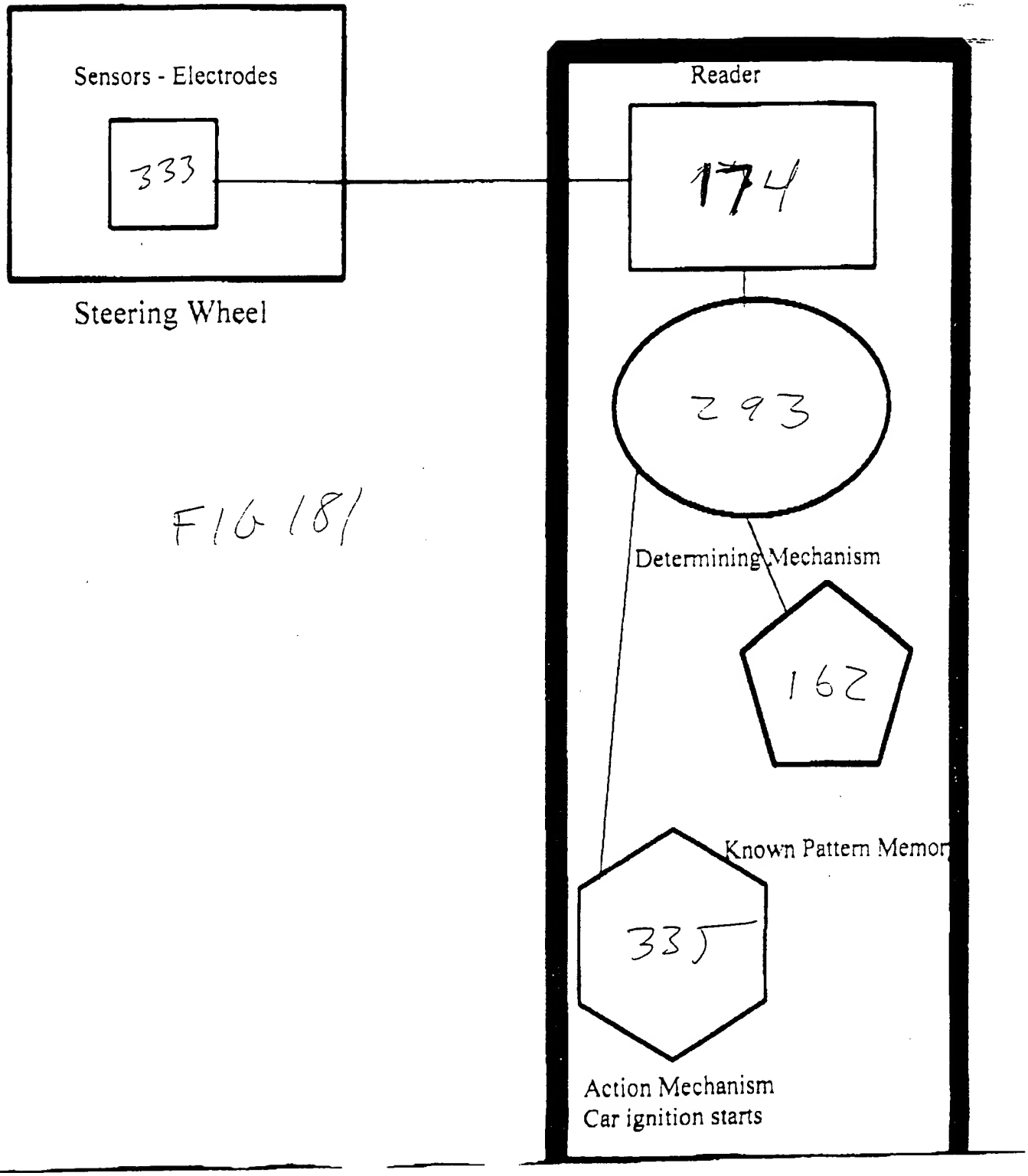
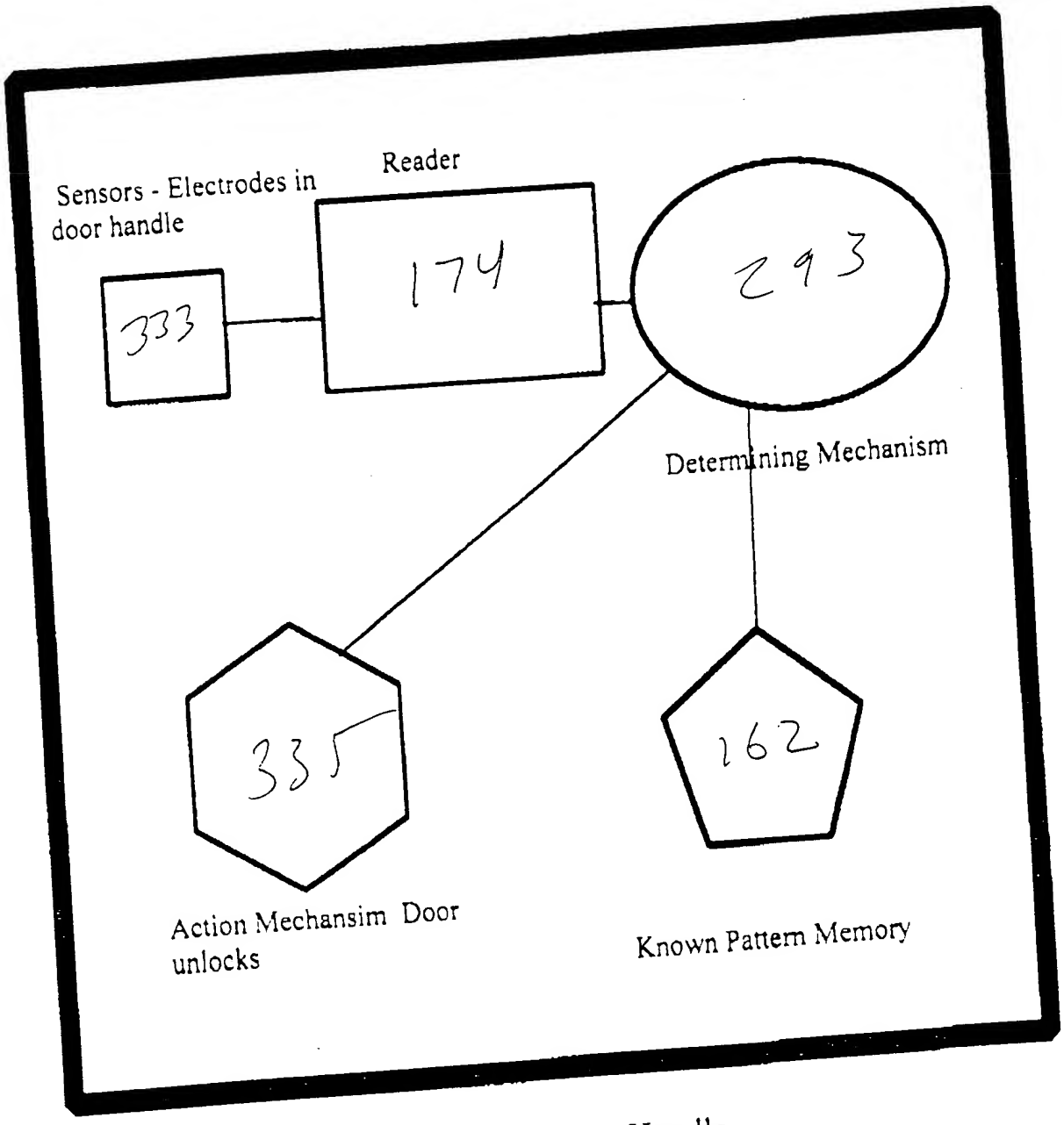


FIG 18

0050640-0040508



Biometric Door Handle

FIG
182

Biometric Steering Wheel

FIG 182a

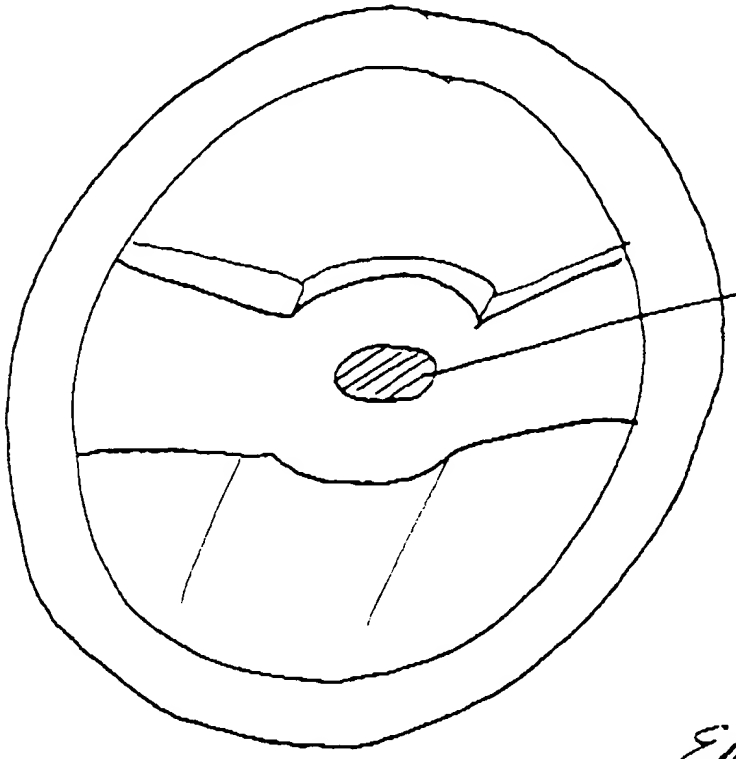
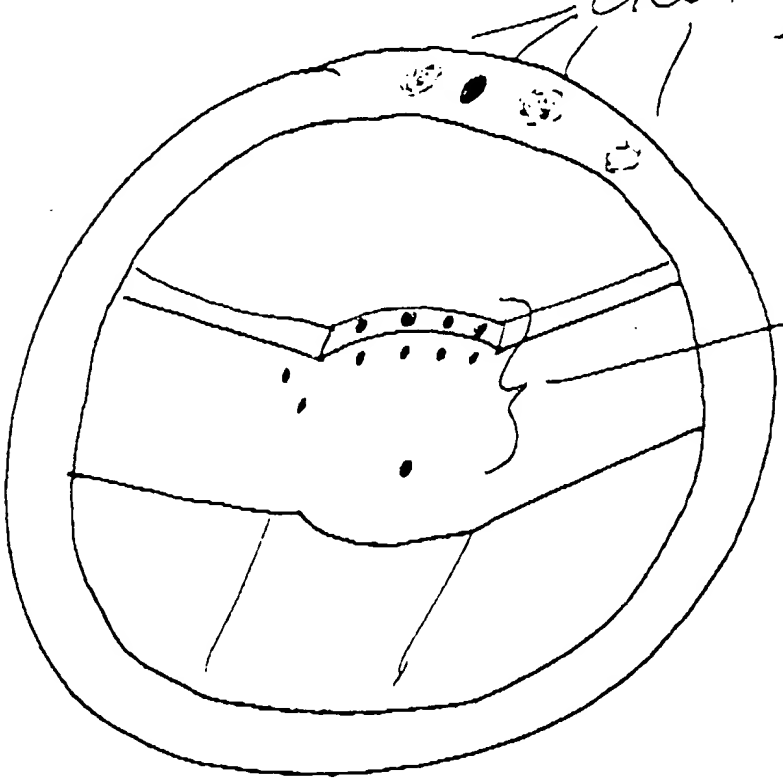


FIG 182b



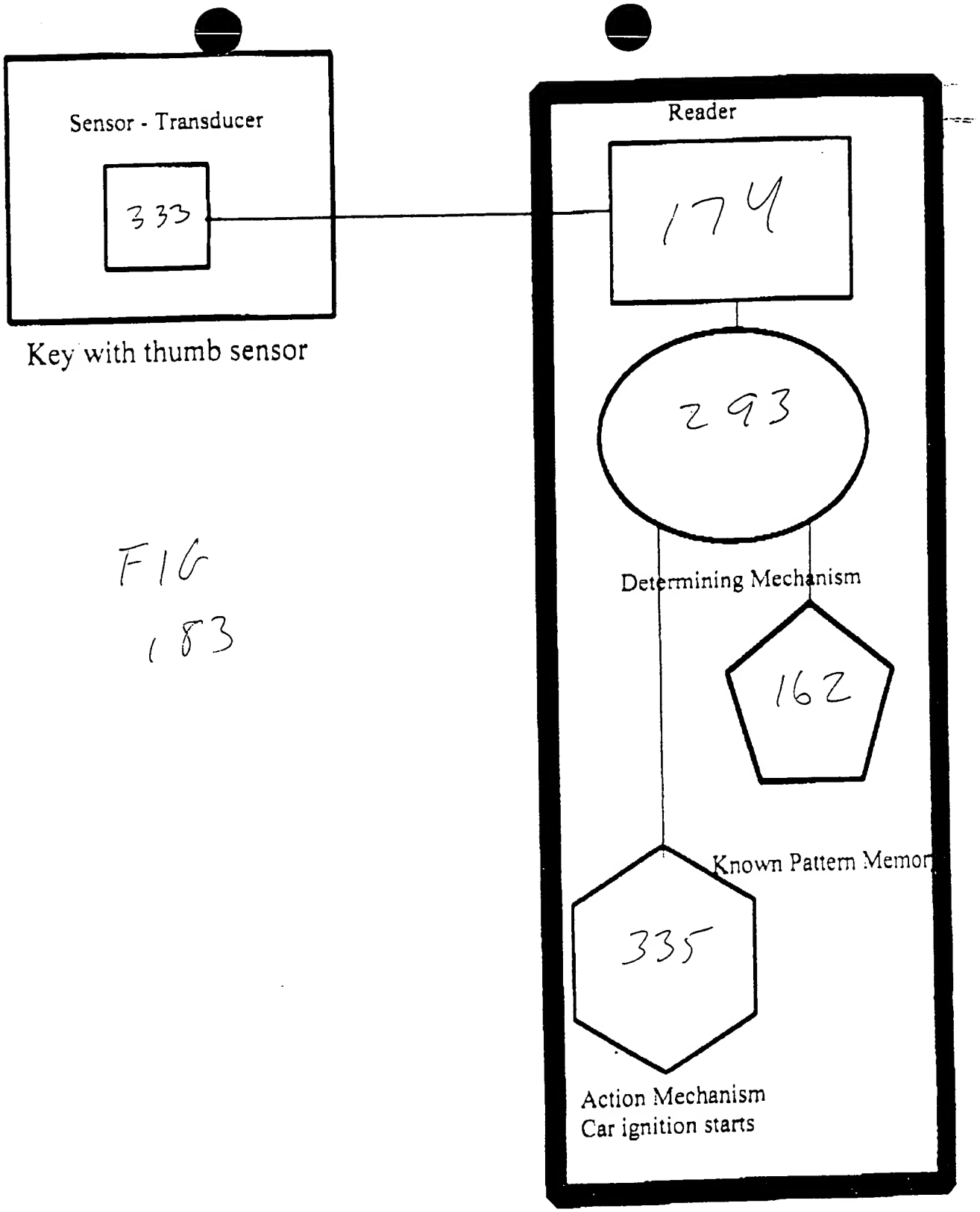
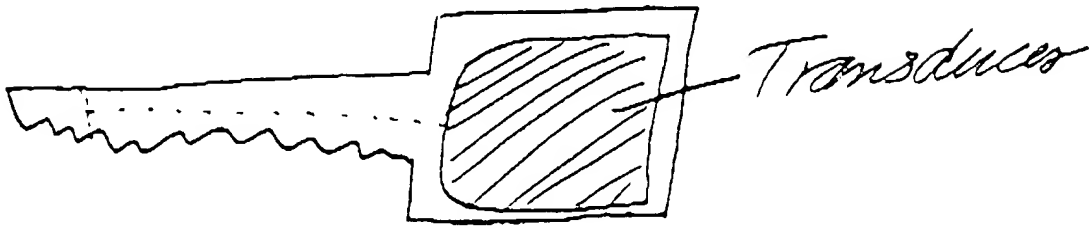


FIG
183

0505040302

Biometric Key

FIG 183a



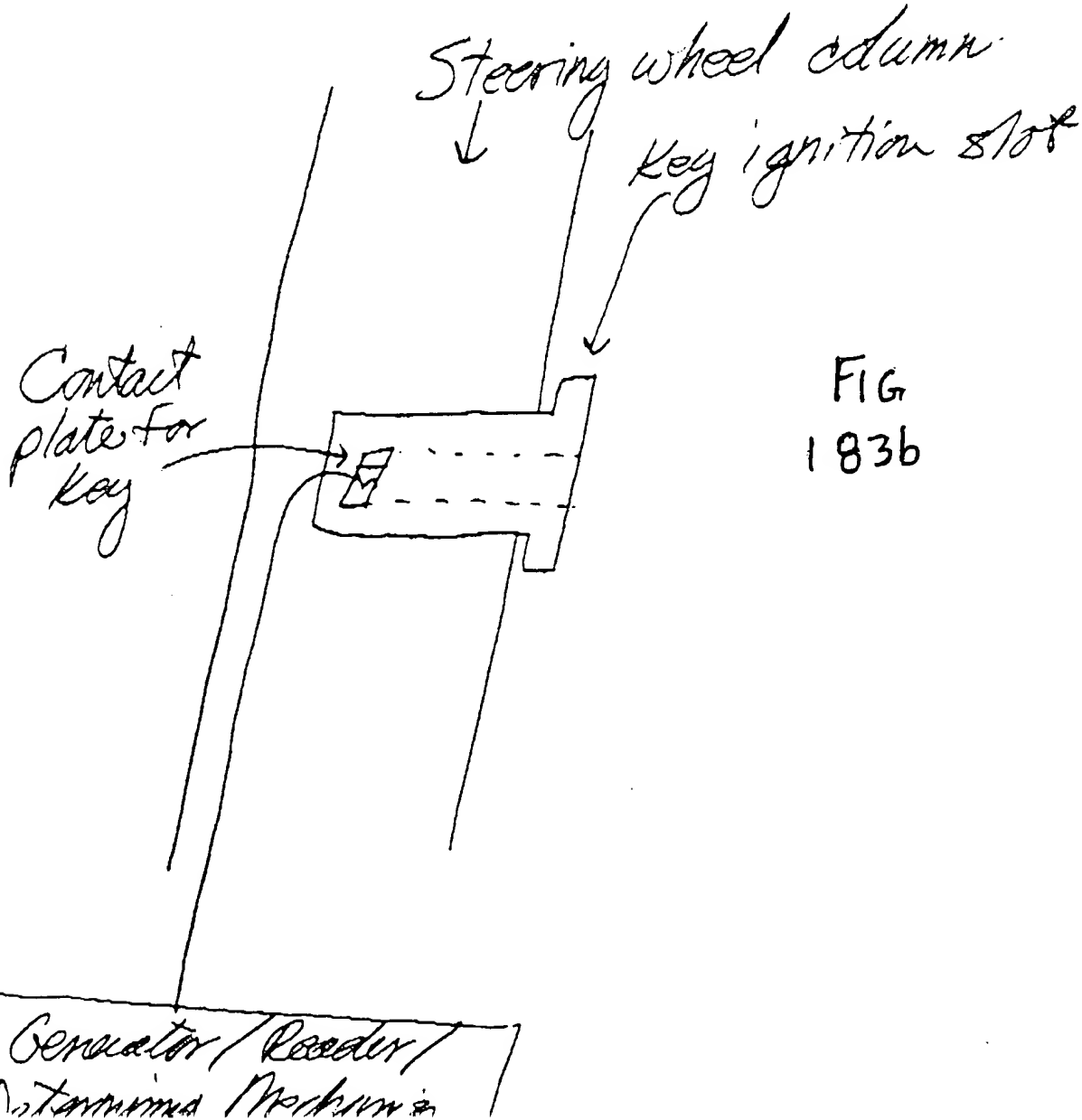


FIG 183b

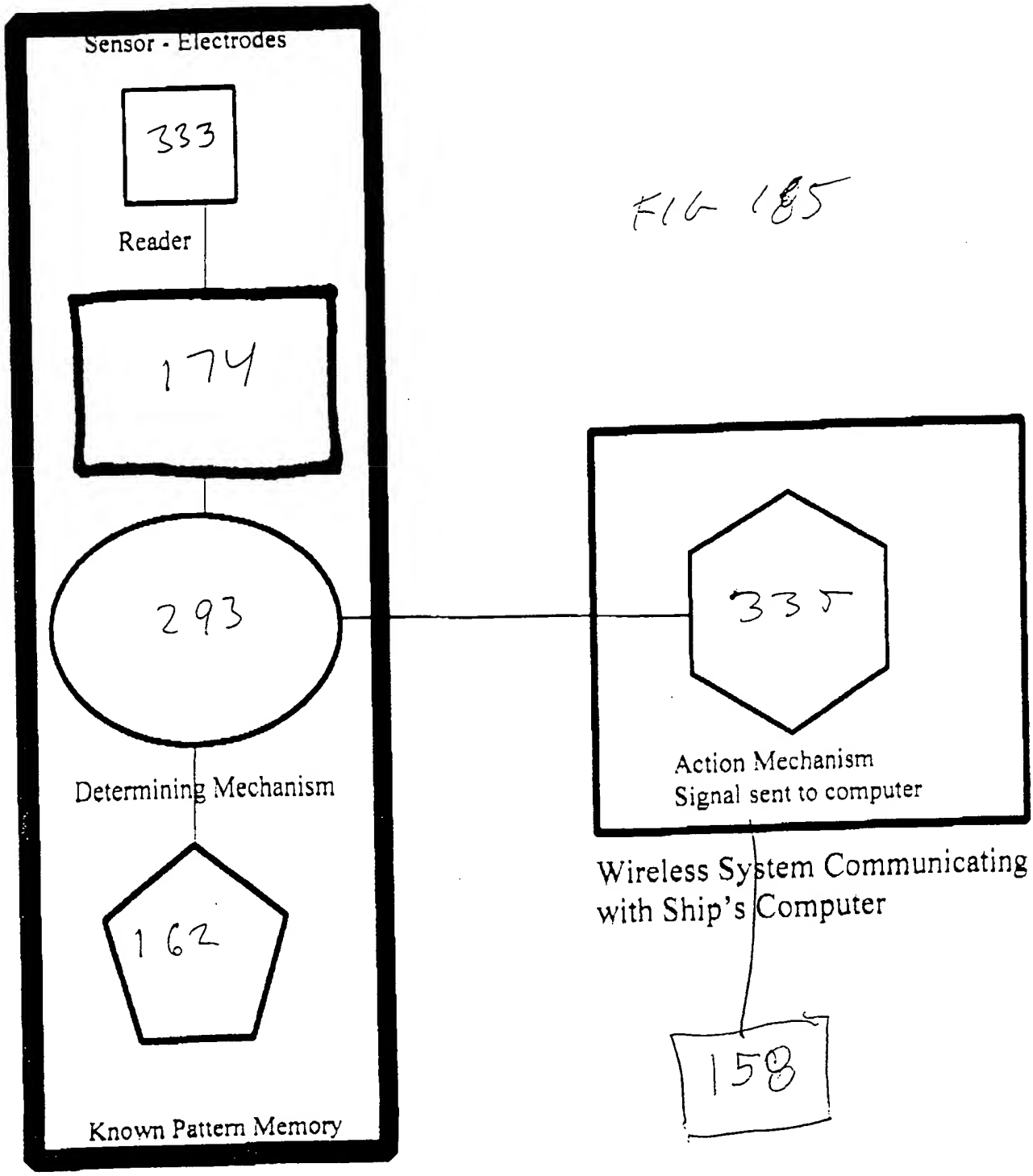


FIG 185

Wristband with electrode sensors/reader unit

Wireless System Communicating with Ship's Computer

Contactless Acoustic Band

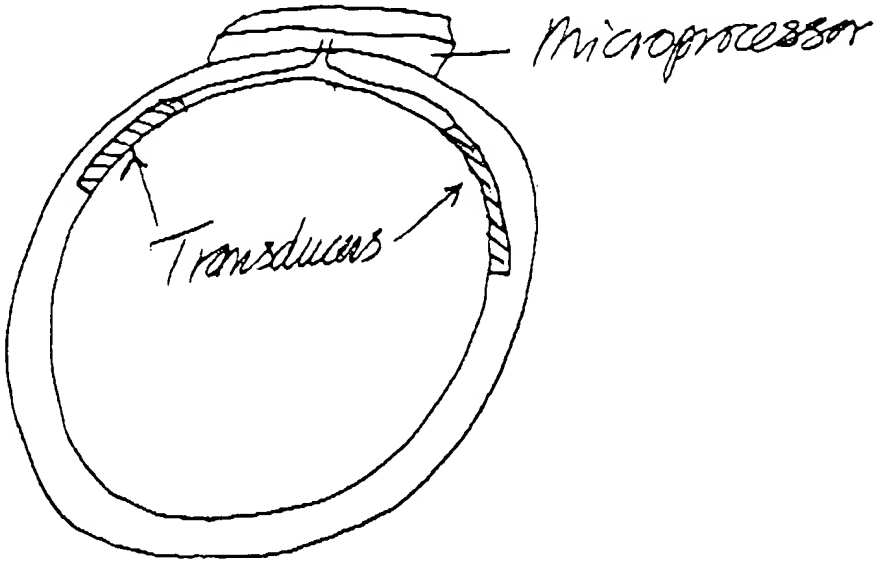


Fig 185a

Outside View

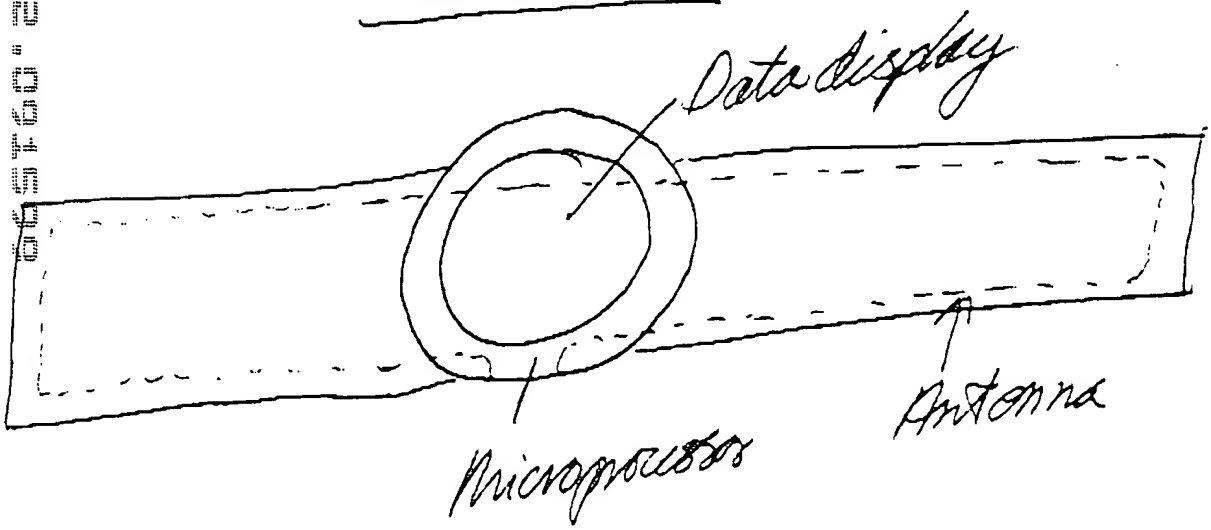


Fig 185b

Inside View

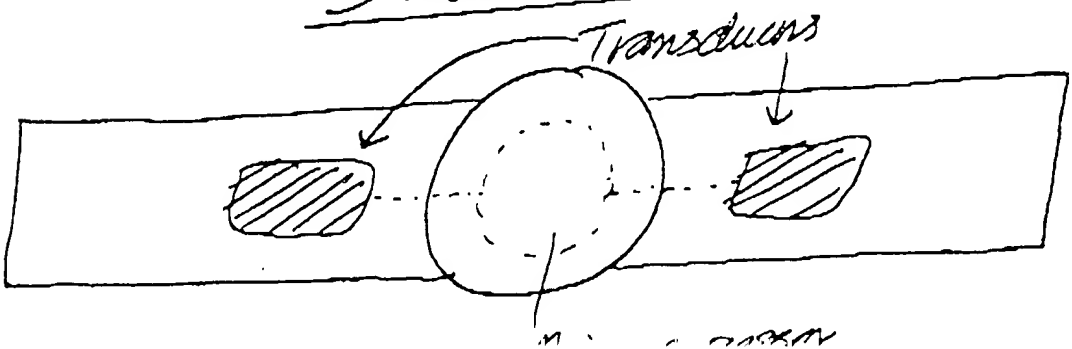


Fig 185c

Contactless Electrode Watch

Fig 185d

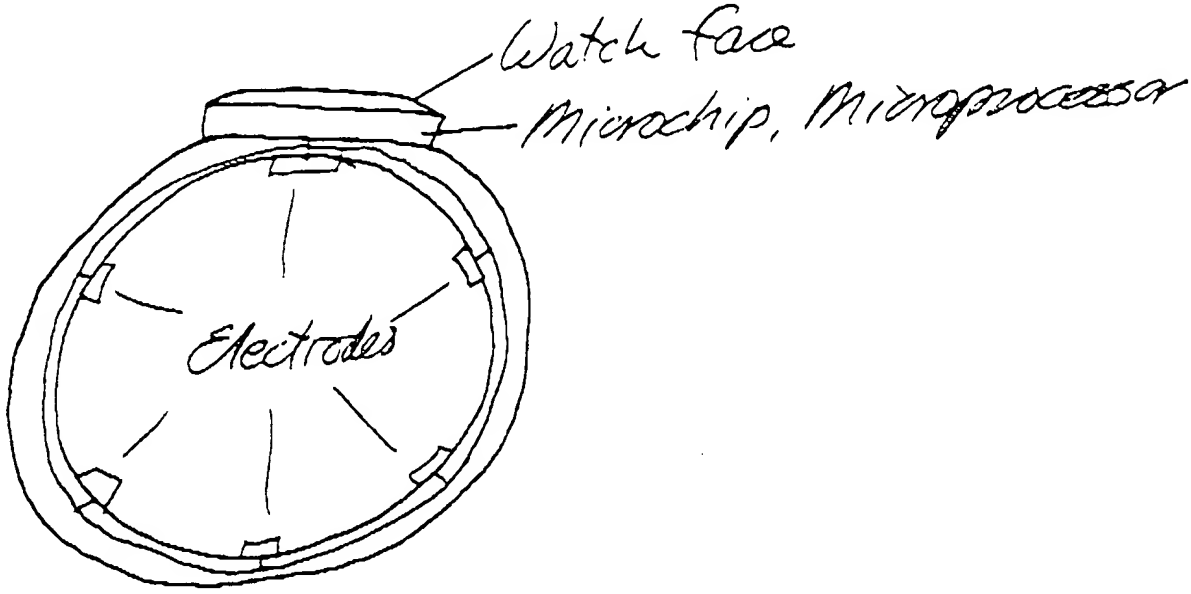


Fig 185e

Outside View

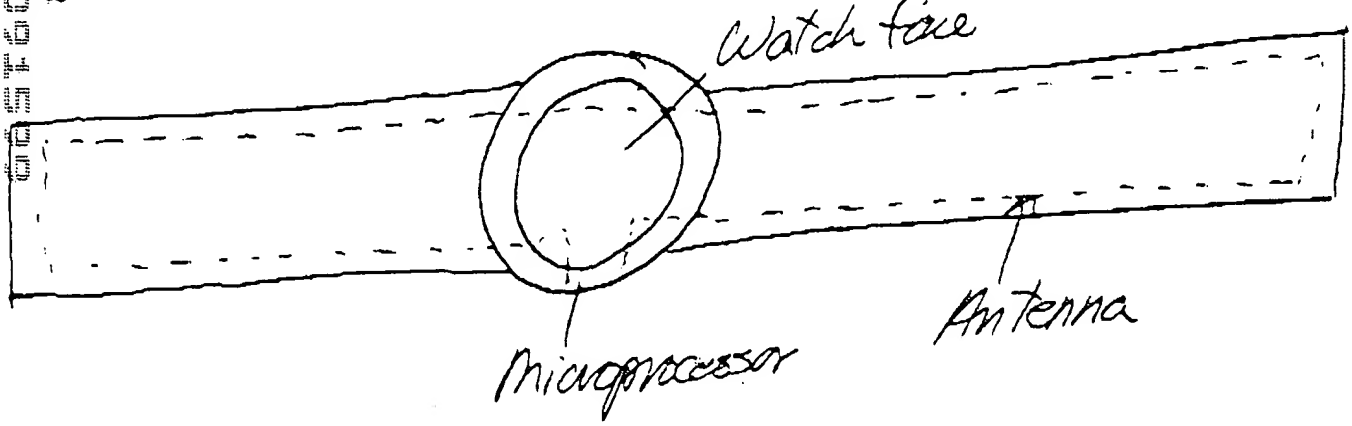
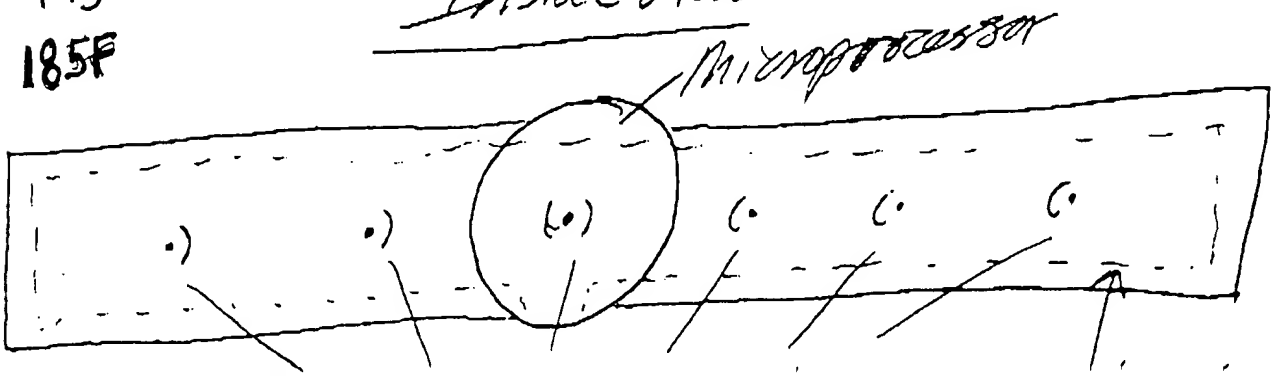
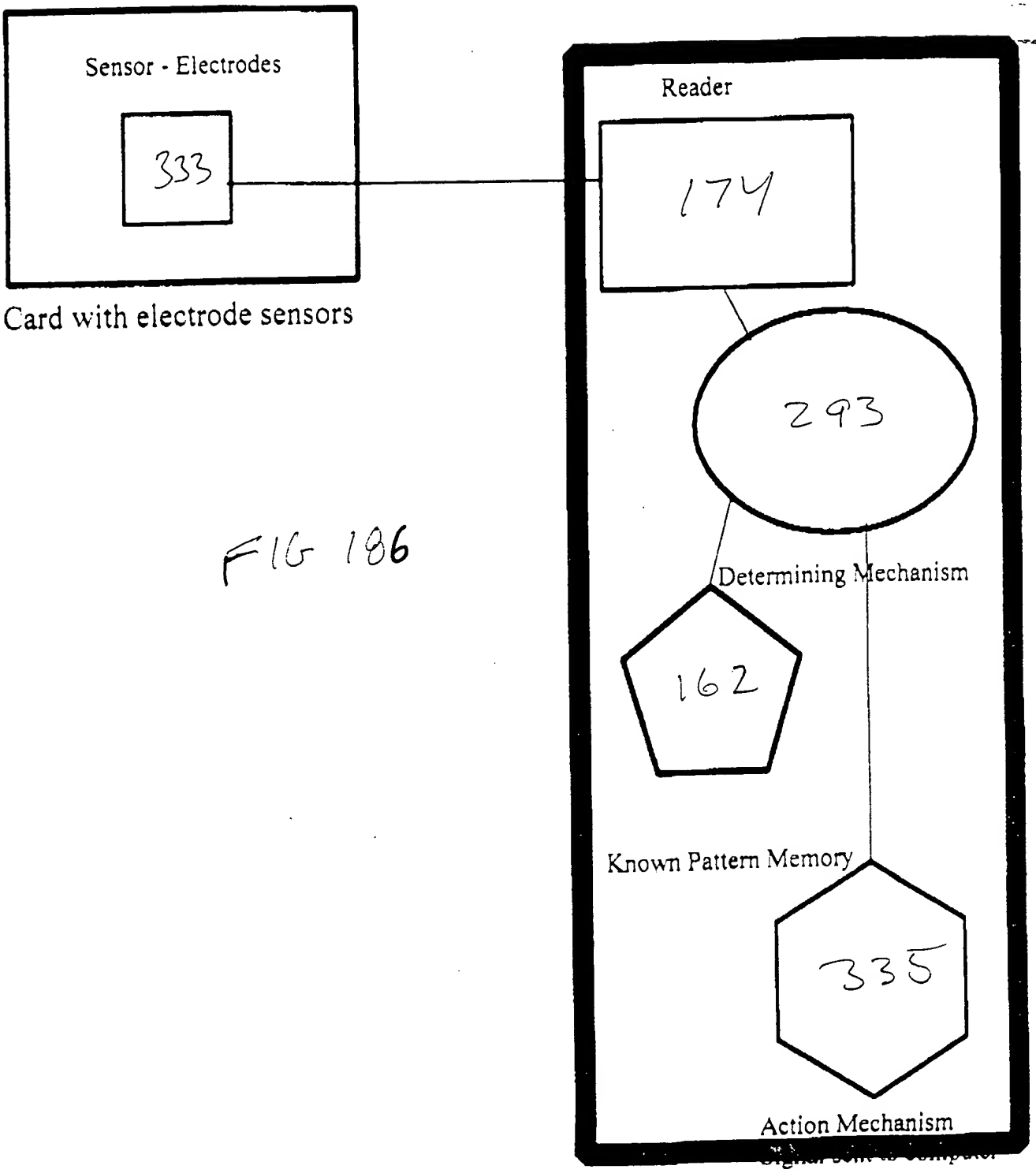


Fig 185F

Inside View





Card with electrode sensors

FIG 186

Wireless Car System
Communicating with GPS and
home office

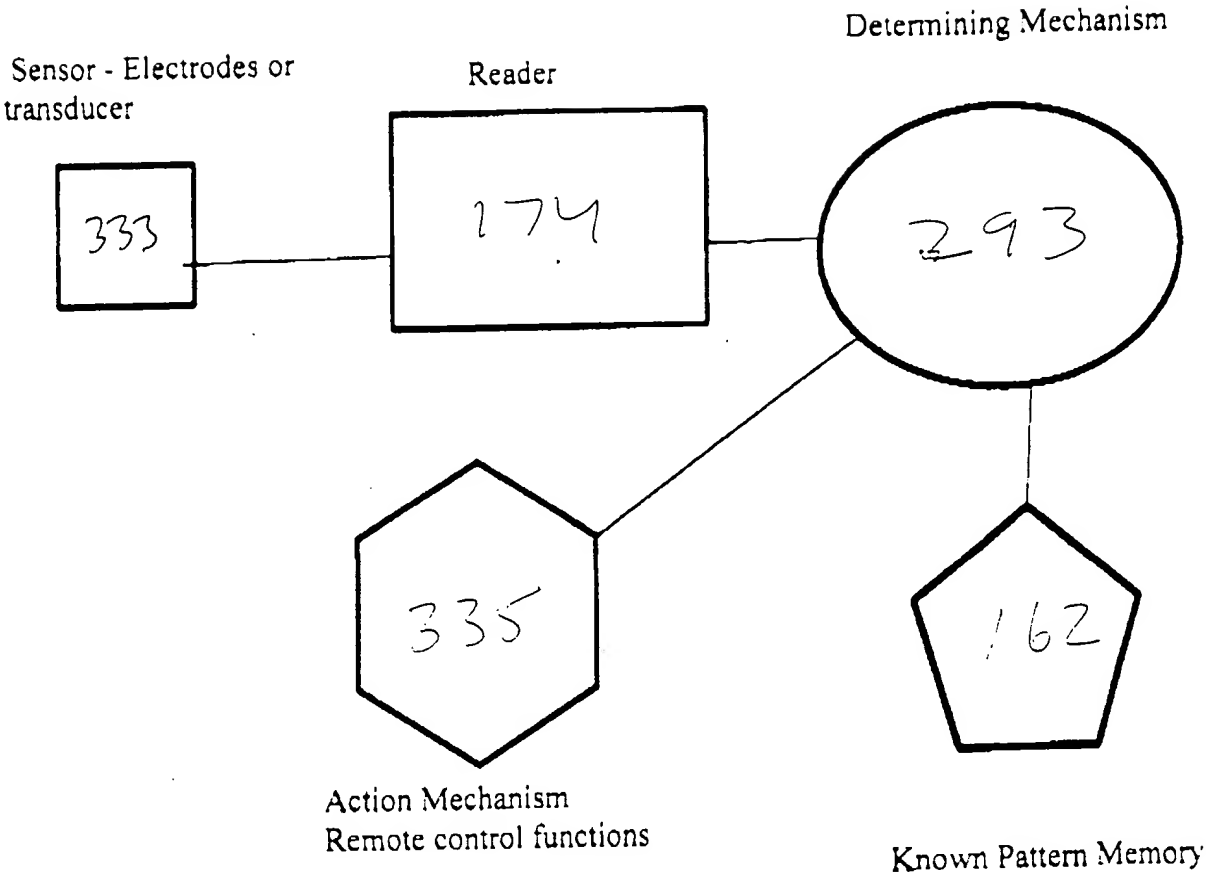


FIG 187

0 0 0 0 4 0 0 0 4 0 0 0

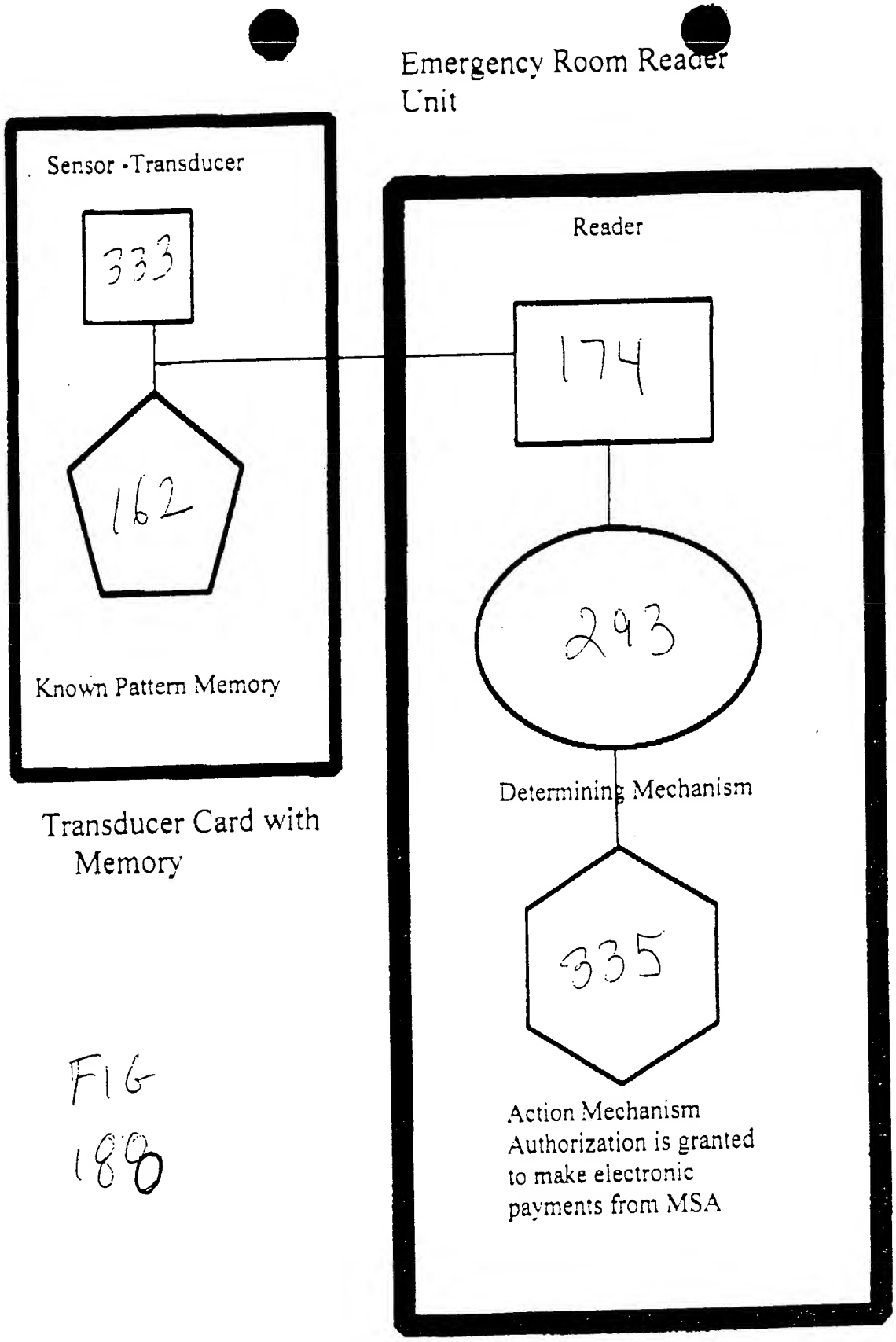

Emergency Room Reader Unit
Sensor -Transducer
333
162
Known Pattern Memory
Transducer Card with Memory
Reader
174
293
Determining Mechanism
335
Action Mechanism Authorization is granted to make electronic payments from MSA

FIG 189

Portable Video-phone

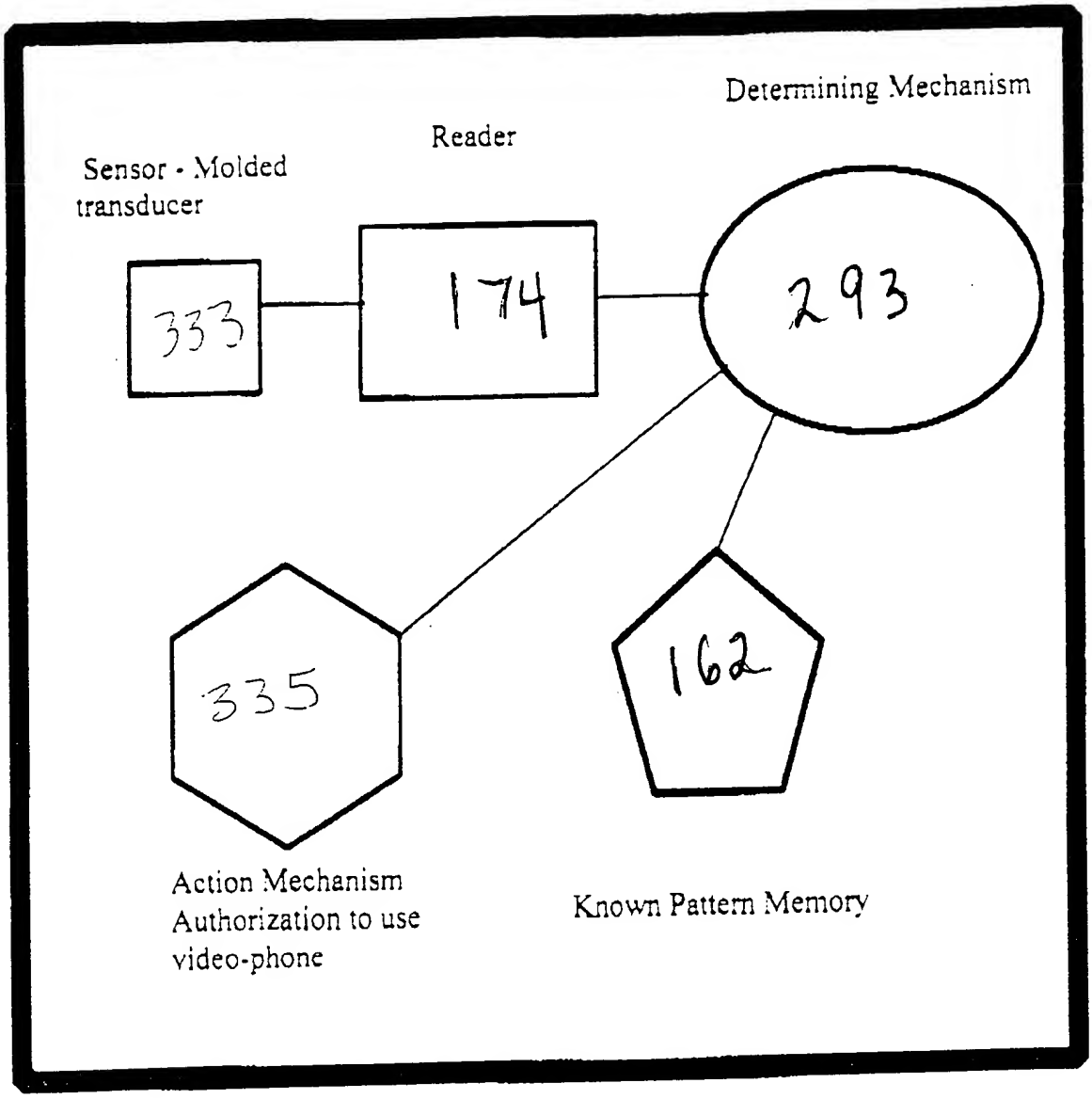
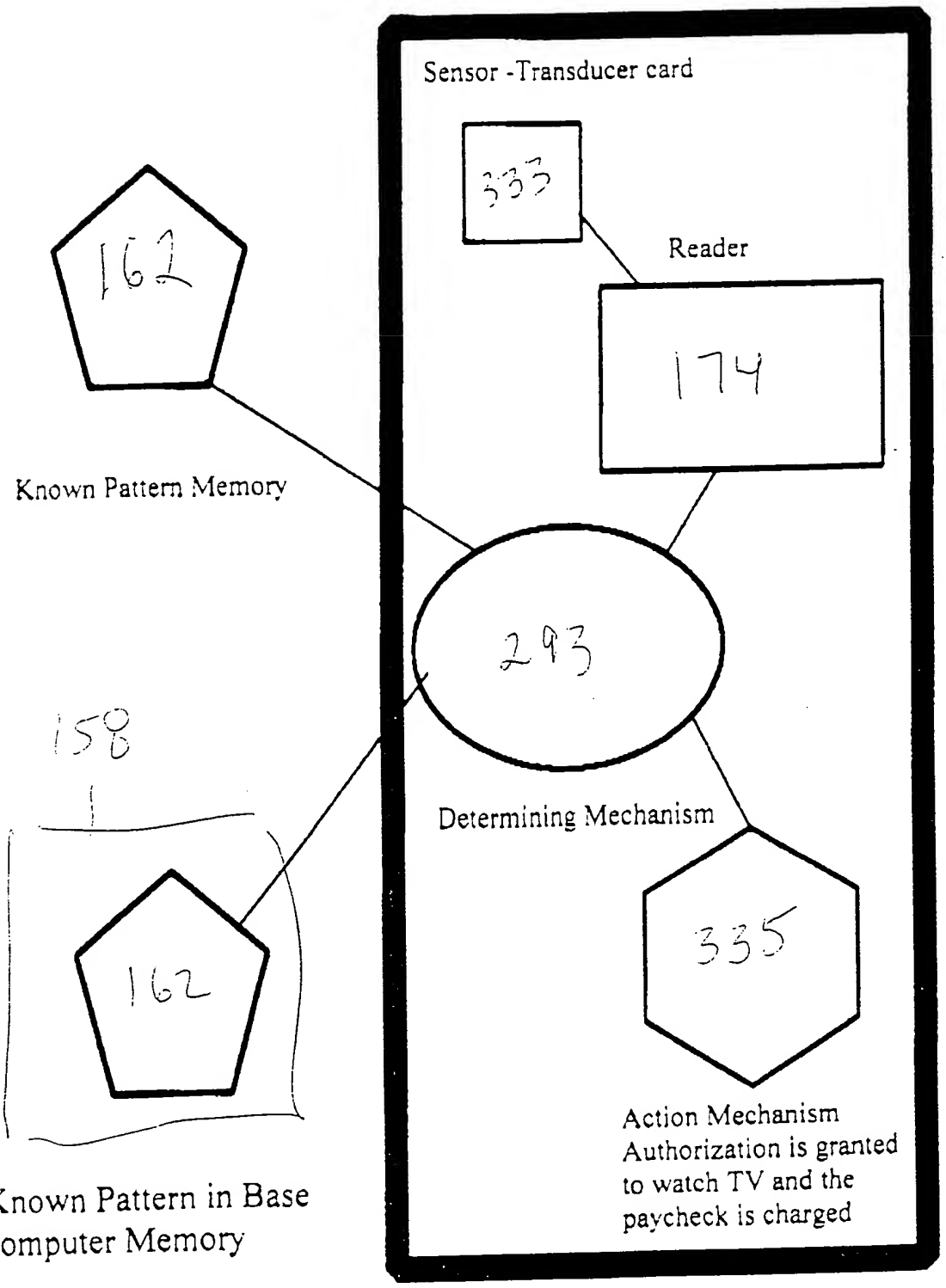


FIG 189

Pay TV Reader Unit



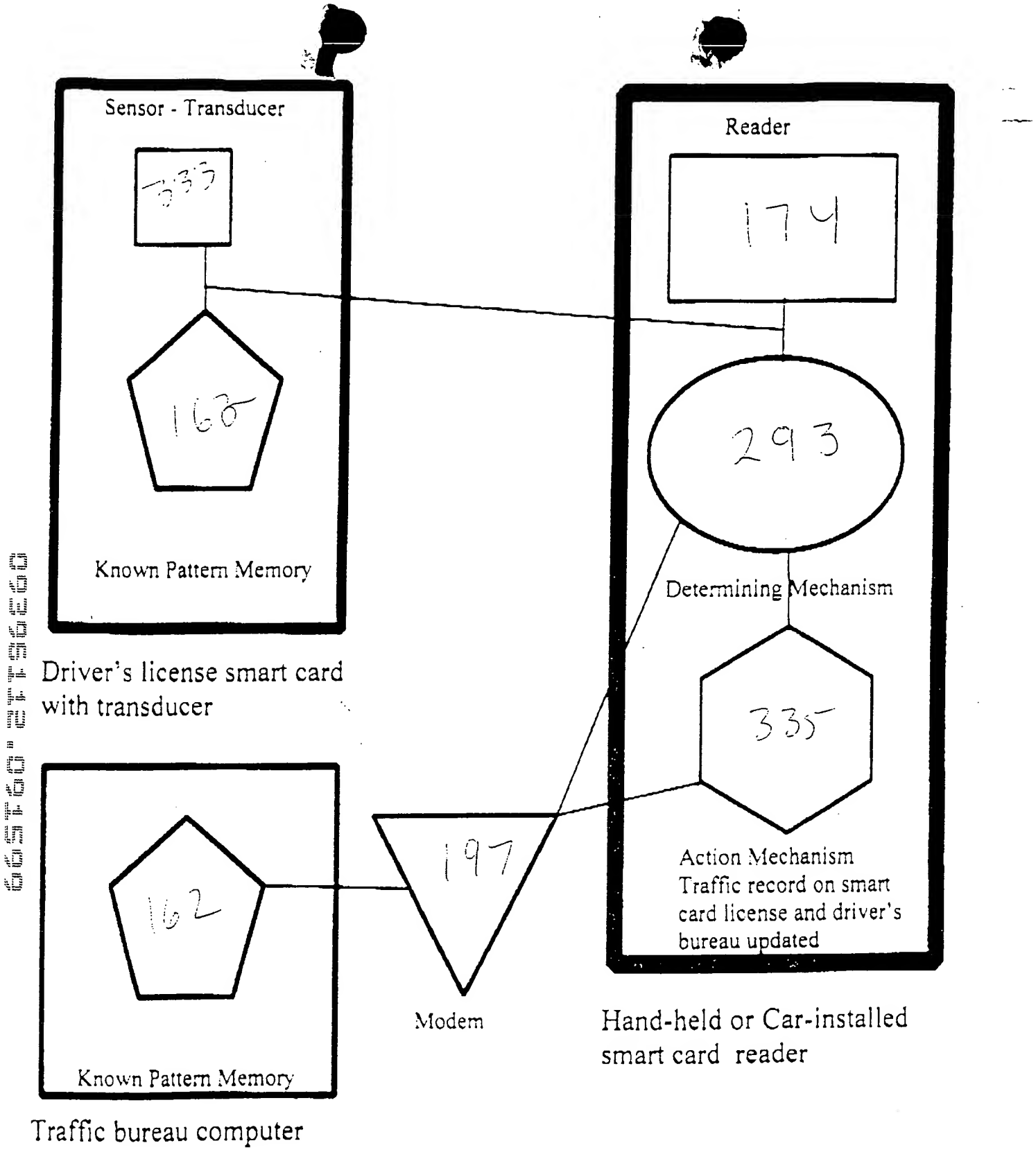

Sensor - Transducer
335
165
Known Pattern Memory
Driver's license smart card with transducer
Reader
174
293
Determining Mechanism
335
Action Mechanism
Traffic record on smart card license and driver's bureau updated
Hand-held or Car-installed smart card reader
197
Modem
162
Known Pattern Memory
Traffic bureau computer

FIG 192